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ANCHOR
HANDY-VOLUME ATLAS
OF THE
WORLD.

With Statistical Notes & Complete Index.

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HANDY-VOLUME ATLAS

OF THE

WORLD,

AN ENTIRELY NEW AND ENLARGED EDITION,

CONTAINING

SEVENTY-TWO NEW AND SPECIALLY ENGRAVED PLATES, WITH STATISTICAL NOTES & COMPLETE INDEX.

BY

E. G. RAVENSTEIN, F.R.G.S.

Hon. Fellow of the Geographical Societies of Edinburgh, Amsterdam, Lisbon, and Frankfurt-on-Main.

NEW YORK:
GEORGE D. HURST,
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INTRODUCTION.

In a sense this Atlas may be looked upon as a new edition of the Handy-Volume Atlas first published some years ago by Messrs. G. Philip & Son. But whilst retaining the title of the old work, and those features which ensured it a favourable reception among all classes, the whole of the maps have been re-drawn and re-engraved, and the letterpress accompanying them has been re-written. In its present shape this neat and compact little volume may fairly claim the favour extended to its predecessor, and it may confidently be asserted that it will render more efficient service than many an Atlas of greater bulk and higher pretensions.

In selecting the maps, care has been taken that the British Empire, and those other parts of the world in which the British public is more especially interested, should be adequately represented. The scale of the maps has been expressed in proportional parts of nature, a scale of 1/1,000,000th, or 1 : 1,000,000, corresponding very nearly to 16 miles to the inch. A multiplicity of scales has been avoided as far as possible, in order that countries shown on different maps may readily be compared.

The names have been spelt in accordance with the principles recommended by the Council of the Royal Geographical Society, the vowels being sounded as in Italian or German, the consonants as in English.

The notes accompanying each map do not pretend to supersede a geographical text-book, but merely to supplement it. The areas and populations of the various countries are given in accordance with

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the most trustworthy information, and an attempt has been made to classify mankind according to religions and languages (race). In numerous instances it has been possible to give the decennial increase of the population, whilst in the notes accompanying Plates I. and II. an estimate of the population for 1895 has been introduced.

The Commercial Statistics, unless stated otherwise, are annual means deduced from the three most recent years for which returns were available. All values have been reduced to a gold standard, and expressed in pounds sterling. The "staple exports" have in all cases been given in the order of their importance as expressed in money value, and the same rule has been followed in naming the countries with which the trade is chiefly carried on.

The mean temperatures for the year and the extreme months, and the rainfall, have been given for a large number of places.

E. G. R.

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THE WORLD.

Shape and Size of the Earth: The Earth is very nearly an oblate spheroid, whose shorter axis coincides with its axis of rotation passing through the two poles.

According to Colonel Clarke's calculations, its major axis measures 41,852,124 feet, or 7,926·5 statute miles; its minor axis 41,710,242 feet, or 7,899·6 statute miles; its circumference along the Equator measures 24,902 statute miles, or 21,600 geographical miles; its total area 156,940,400 statute square miles; and its volume 259,880 million cubic miles.

Of this total area, 8.4 p.c. (16,464,700 sq. m.) are within the Arctic and Antarctic regions; 51.6 p.c. (102,244,654 sq. m.) within the two temperate regions; 40 p.c. (78,231,046 sq. m.) within the Tropics.

The Land: The land covers 54,807,420 sq. m., on the assumption that 25,000 sq. m. of land remain to be discovered within the Arctic Regions, and that the supposed Antarctic continent, or "Antarctis," has an extent of 2,500,000 sq. m. within the Antarctic circle.

The Oceans: The oceans, including the inland seas connected with them, cover 142,132,980 sq. m., or 72 p.c. of the total surface of the earth. There are 2.59 sq. m. of ocean to every sq. m. of land. This area is distributed over the different areas as follows:—*Arctic Ocean*, including Hudson Bay, 5,785,000 sq. m.; *Atlantic Ocean*, 34,301,400 sq. m.; *Indian Ocean*, 28,615,600 sq. m.; *Pacific Ocean*, 67,699,630 sq. m.; *Antarctic Ocean*, 5,731,350 sq. m.

Height and Depths: The mean height of the land has been estimated at 2,440 feet; the mean depth of the sea, 11,470 feet (Karstens). The highest mountain (Mt. Everest) rises to a height of 29,000 feet; the greatest depth of the ocean as yet discovered (in the Pacific, to the east of Yezo) is 27,[illegible] feet. If the whole of the solid crust of the earth were to be levelled, so as to form a spheroid, it would still be covered by an ocean of an uniform depth of 8,000 feet (Prof. Penck).

Area and Population of the great divisions of the Earth are estimated as follows:—Europe, 3,864,750 sq. m., pop. 373,910,000; Asia, 17,074,050 sq. m., pop. 839,523,000; Africa, 11,521,530 sq. m., pop. 137,038,000; Australasia, 3,450,220 sq. m., pop. 5,954,000; North America, 9,294,330 sq. m., pop. 97,270,000; South America, 6,817,390 sq. m., pop. 39,153,000; Grahams Land (30,000 sq. m.) and uninhabited islands in the Southern Oceans, in the temperate zones, 35,150 sq. m.; undiscovered Arctic islands, 250,000 sq. m.; Antarctis, within the Antarctic circle, 2,500,000 sq. m.

Races: The following estimate cannot claim to be systematic, for, with the exception of the Negroes in America and the Jews throughout the world, the division is by languages rather than by race. The half-breeds in America, whose numbers can only be guessed at, have been classed with the interior race. Had linguistic distinctions alone been rigidly adhered to, these half-breeds, as well as the Negroes in America, many Mongols in Asia, and others, would have had to be classed as "Europeans."

Europeans, 445,606,000; *Asiatic Aryans*, 288,142,000; *Semites*, 31,167,000; *Hamites*, 12,350,000; *Mongolians*, 483,074,000; *Malays*, 45,[illegible],000; *Dravidians* (in India), 61,656,000; *Negroes*, 124,141,000; Australians and Polynesians, 1,605,000; Hottentots 500,000; American Indians, 30,914,000.

Religions: Christians of all kinds, 530,285,000; Jews, 8,567,000; Mohammedans, 217,902,000; Buddhists, Hindus, &c., 649,111,000; Heathen, 87,022,000.

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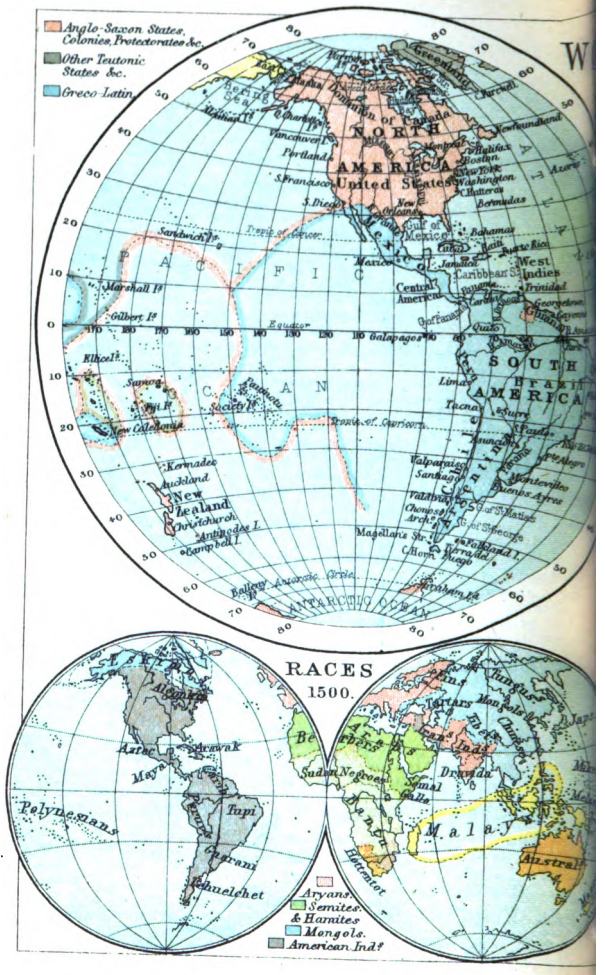

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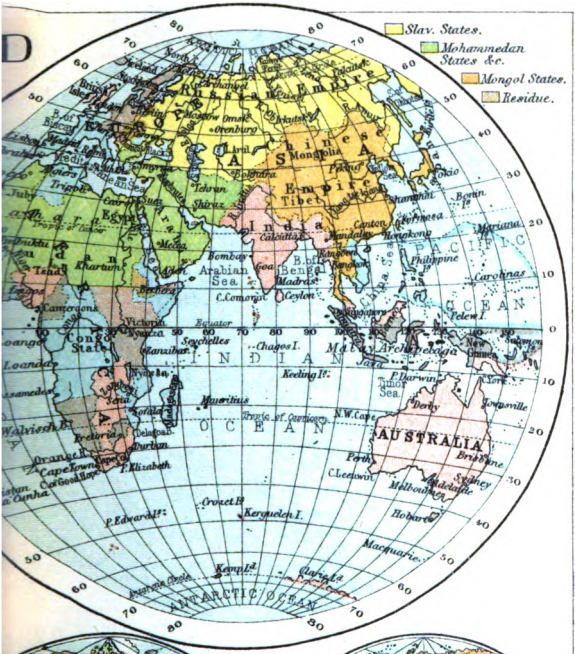

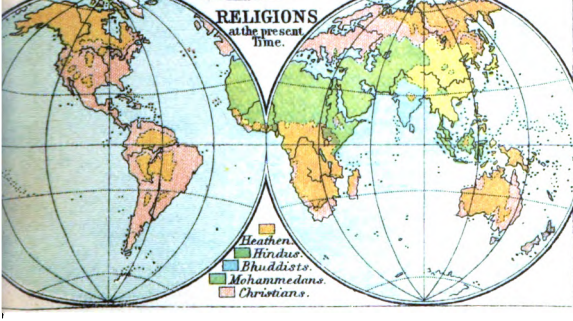

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THE WORLD.

The great state systems of the world can be grouped either according to the Religion or the Nationality of the dominant race.

We have thus a *Christian World*, which has taken possession of 41,863,583 sq. m., with a population of 1,015,295,850, of whom only 522,917,000, or 51 p.c., are Christians; a *Mohammedan World*, 4,883,500 sq. m., pop. 60,018,000, incl. 50,644,000 Mohammedans (84 p.c.) and 6,582,000 Christians; a *Mongolian World* (China, Japan, Corea, &c.), 4,888,570 sq. m., pop. 417,510,000, of whom 414,675,000 (99 p.c.) are Mongolians, and 394,970,000 (95 p.c.) followers of Buddha or adherents of some other Eastern Asiatic religion; and a *Heathen World*, which has shrunk to a few islands in the Pacific, with 5,494 sq. m., pop. 63,650.

These figures exhibit very plainly that Christianity is at present the dominant force, for Christian governments rule or claim to rule 68 p.c. of the population of the world.

The 'Christian World' may be divided into six groups according to the ruling nationalities. We have thus a Teutonic World, including the Anglo-British Empire (18,416,563 sq. m., pop. 609,596,000); a Greco-Latin World (14,566,058 sq. m., pop. 251,828,000); a Slav World (Russia, Servia, Bulgaria, Montenegro) (8,684,186 sq. m., pop. 132,264,000); Hungary, which stands apart (125,611 sq. m., pop. 19,490,000); a Negro World, confined to Haiti and Liberia (63,040 sq. m., pop. 1,960,000); and the independent Christian islands in the Pacific (8,125 sq. m., pop. 157,350).

The **Anglo-British World** includes the British Empire and the United States, with an area of 14,941,124 sq. m., and a population of 472,944,900 souls, incl. 111,721,000 Europeans and 124,830,000 Christians.

The **British Empire**, including its feudatory states and the territories claimed in Africa, but not yet occupied, has an area of 11,384,844 sq. m., pop. 402,262,900. Of the population there are in Europe 39,477,000, in Asia 307,509,000, in Africa 43,242,000, in Australasia 4,949,000, in America 7,085,900. According to religion there are 54,866,000 Christians (13 p.c.), 149,000 Jews, 83,283,000 Mohammedans (more than in all the independent Mohammedan States), 232,395,000 Buddhists and other adherents of East Asiatic religions, and 31,570,000 heathen. According to race or language there are 49,829,000 Europeans (12 p.c.), 232,585,000 Asiatic Aryans, 909,000 Semites, 405,000 Hamites, 11,546,000 Mongolians, 1,255,000 Malays, 61,656,000 Dravidians, 42,907,000 Negroes, 679,000 Australians, 122,000 American Indians, and 370,000 Hottentots. Not a race is unrepresented.

The imports of the British Empire from foreign countries amount annually to £424,489,000; the exports to foreign countries to £326,687,000; and of the total shipping of the world, reduced to steam tons, 61 p.c. sails under the British flag.

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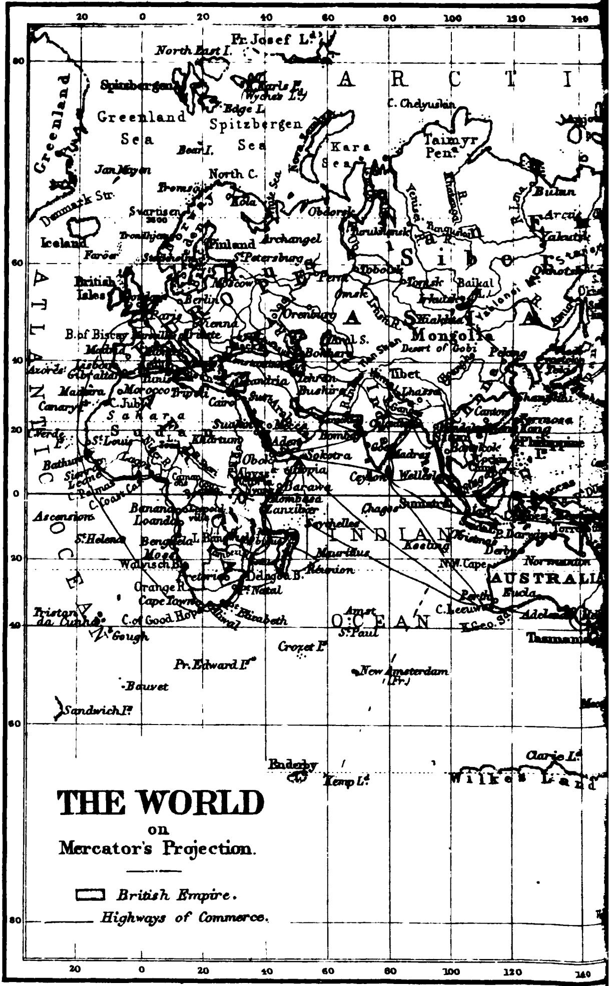

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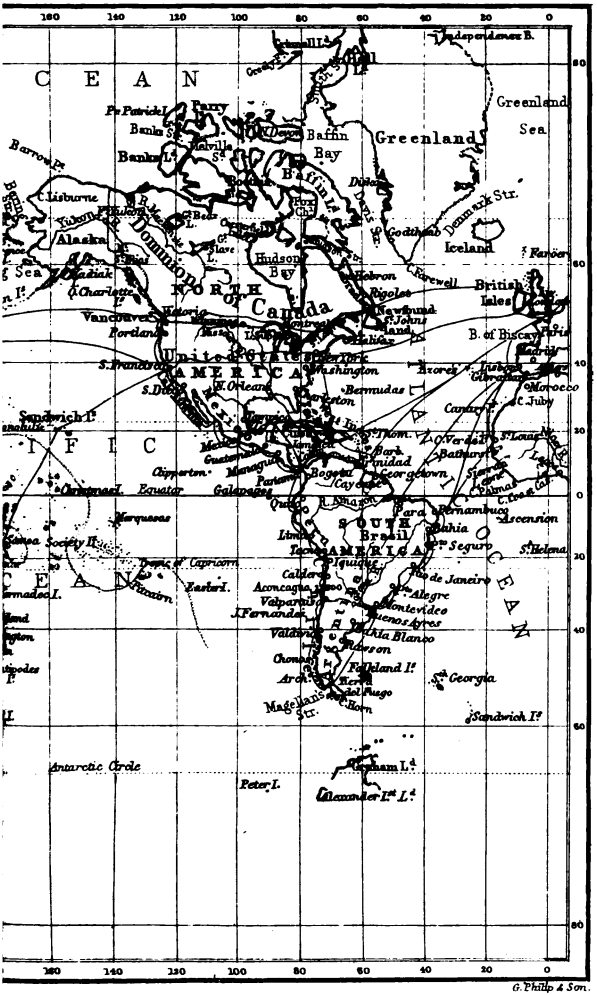

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THE ATLANTIC OCEAN.

The Atlantic Ocean separates the Old World from the New, and has been likened to a longitudinal valley divided by a series of submarine plateaus into an Eastern and Western half. Upon these plateaus there rise the volcanic islands of the Azores, St. Paul, Ascension, and Tristan da Cunha. The Ocean, including the Mediterranean and other enclosed seas, covers an area of 34,301,400 sq. m. Its greatest depth (4,561 faths.) has been sounded to the North of the Virgin Islands, and has been named the "International Deep."

The currents are primarily originated by the wind. The trade winds, which blow from the N.E. and S.E. towards the Equator, give rise to the Northern and Southern Equatorial currents, which are deflected on reaching the coast of the New World, a portion of the water returning towards the Gulf of Guinea (Equatorial current or Guinea current), a portion following the coast of Brazil, and another portion entering the Caribbean Sea and the Gulf of Mexico, whence it issues as the Gulf Stream. It is to the warm waters of this stream that Western Europe owes its mild climate and freedom from icebergs. The cold currents flowing out of Baffin Bay, southward along the coast of North America, and from the cold Southern Ocean along the East coast of S. America and the West coast of Africa, produce a corresponding lowering of the temperature.

ISLANDS IN THE ATLANTIC.

Iceland (Danish), 40,458 sq. m., pop. (1890) 70,927. The island consists in the main of a plateau, from which rise glacier-girt mountains (Jökulls), including 29 volcanoes. The highest summit is Oraefu Jökull, 6,430 feet. There are few trees, and the habitable part of the island does not exceed 16,200 sq. m. Climate comparatively mild and equable. Mean temp. of Reykiavik 32° (Feb. 27°, July 54°), rain and snow 3 in. The fisheries and sheep-breeding of importance. The exports include dried fish, wool, blubber, tallow, eiderdowns, ponies, &c. *Capital:* Reykiavik, 2,500.

Bermudas (British), a group of coral islands in the Northern Atlantic. Area 19 sq. m., pop. (1893) 15,520, incl. 5,920 whites. Imports, £327,600; exports, £124,800. Staple exports: onions, potatoes, bulbs, nearly all being exported to the United States and Canada. Of the tonnage entered 88 p.c. is British.

Azores, a group of volcanic islands in the Northern Atlantic, mountainous (Pico, 7,710 feet), but fertile. Area 922 sq. m., pop. (1890) 255,511, mostly Portuguese and Rom. Catholics. The exports include oranges, wine, cereals, &c. The islands form an integral portion of the kingdom of Portugal; capital, Ponta Delgado (17,000), on St. Michaels.

Madeira (Portuguese). An island of volcanic origin, belonging to Portugal. Hilly (6,100 feet). Climate most equable, and hence sanatorium. Mean temp. of Funchal 66° (Jan. 61°, Aug. 73°); rain 27 in. on 79 days; snow only in hills. Area, 314 sq. m., pop. (1890) 134,623, mostly Portuguese. Of the tonnage entered 62 p.c. is British. Imports, £156,000; exports (wine, sugar), £220,000. Chief trade (52 p.c.) with Un. Kingdom.

Canaries, a group of islands of volcanic origin near the African coast, mountainous (Pico de Teide, on Tenerife, 12,190 feet). Mean temp., Sta. Cruz de Tenerife, 71° (Jan. 64°, Aug. 78°); rain 8 in. Area 2,820 sq. m., pop. (1887) 291,625. Imports, £602,000; exports, £354,000. Staple exports: vegetables, bananas, cochineal. 53 p.c. of total trade with Un. Kingdom. The islands form an integral portion of the kingdom of Spain.

Cape Verde Islands, *see* Map XLVII.

St. Paul, a rocky volcanic islet, nearly under the Equator, Uninhabited.

Fernando de Noronha, hilly island with a Brazilian penal settlement, in 3° 50′ S.

Trinidad, small island, 2,200 feet, in 3° 31′ S. Uninhabited.

Ascension, a British island of volcanic origin, rising 2,740 ft. Area 34 sq. m., pop. 140. Sanatorium and coaling station. Celebrated for its turtles.

St. Helena, a British island of volcanic origin, rising 2,700 feet. Area 47 sq. m., pop. (1891) 4,116. Imports, £33,000; exports, £5,330.

Tristan da Cunha (British), a group of islands in the Southern Atlantic; 45 sq. m., pop. 53.

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THE ARCTIC REGIONS.

The Arctic Ocean is a partially enclosed sea, which a comparatively inconsiderable rise of the sea-bottom would convert into a true Mediterranean. Three openings connect it with the Pacific and Atlantic Oceans, namely, Bering Strait (narrow and shallow), Davis Strait, and the broad expanse of water lying between Norway and Greenland. Of these, the last is by far the most important, for through it the warm waters of the Gulf Stream find access to the Polar basin, and keep the sea, as far as Novaya Zemlya, free from ice throughout the year. This current is supposed to flow feebly along the coast of Siberia, until, deflected by the land, it becomes merged in the cold counter-currents which, passing along the eastern coasts of Greenland and Labrador, carry immense masses of ice into the Atlantic.

The drainage area of the Arctic Ocean is very considerable, for it embraces 5,772,000 sq. m. of the mainlands of Europe, Asia, and America. The largest rivers which enter it are the Ob, Yenisei, Lena, Mackenzie, and Dvina.

The islands within the Arctic circle, as far as discovered, cover an area of 1,233,000 sq. miles. The more important of these islands are:—

Greenland (Danish): 838,000 sq. m., of which 717,000 within the Arctic circle. The interior a lofty plateau covered with a cap of ice, from which glaciers descend into the sea. Only 34,000 sq. m. are described as "habitable." Pop. (1890) 10,516. Of "trees" there are only dwarf willows and birches, and a juniper tree in the extreme south. Fishing and hunting are the principal occupations. Exports—blubber, cod-liver oil, sealskins. Capital, Godthaab.

Arctic Islands of America: 502,440 sq. m. (416,000 sq. m. within the Arctic circle). At most a thousand inhabitants. All the other islands within the Arctic circle are uninhabited.

Spitzbergen: 27,060 sq. m., a group of mountainous islands, accessible almost throughout the year along its western shore. There are reindeer, ice-bears, foxes. The island is frequented by sealers and whalers, but has no permanent inhabitants.

Novaya Zemlya ("New Land;" Russian): 35,000 sq. m. No inhabitants.

Francis Joseph Land: 19,000 sq. m., as far as known. No inhabitants, and difficult of access.

The Anjou Islands (Russian): 11,000 sq. m., off the coast of Siberia, including New Siberia. Uninhabited.

Wrangel Land (Russian): 1,800 sq. m. Uninhabited.

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ARCTIC REGIONS

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Scale 1:60,000,000 — English Miles. 0 200 400 600 800 1000 1300

Sea of Japan
KOREA
Yellow Sea
Petropavlovsk
Kamchatka
Sea of Okhotsk
Sea of Sakhalin
Vladivostok
R. Amur
Khabarovka
R. Sungari
Stanovoi Mts
Yakutsk
R. Aldun
R. Nonni
Peking
Khingan
Yablonoi Mts
R. Kerulen
Hanhai
Indigirka
R. Lena
R. Vitim
Baikal
R. Selenga
Verkhoyansk
Kiakhta
Urga
Sayan
Khatanga
Khatanga R.
Low Tungusska
Yenisei
Yenisei R.
Turukhansk
Altai
C. Chelyuskin
Lonely I.
P. Dickson
G. of Ob
Kara Sea
Yalmal
R. Ob
Semipalatinsk
Omsk
R. Irtish
Balkash
L. Balkash
Novaya Zemlya
Spitzbergen
Sea
Ural
R. Tobol
R. Tekim
R. Syr
L. Aral
R. Amu
Khiva
Ust Yurt
R. Ural
Orenburg
Nishni Novgorod
R. Volga
Moscow
R. Don
Astrakhan
Caspian Sea
Caucasus
Archangel
R. Dwina
White Sea
L. Onega
Ladoga
St. Petersburg
Riga
Baltic Sea
Stockholm
Gulf of Bothnia
NORWAY
SWEDEN
EUROPE
ASIA
AFRICA
Wyche
Nova Zemlya

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EUROPE.

Position and Extent: Europe is geographically merely a peninsula of Asia. It is bounded by the Arctic Ocean, the open Atlantic and the Mediterranean, and separated from Africa and Asia only by narrow straits. Development of coast-line 19,820 m., or one mile of coast to every 182 sq. m. Extent from the North C. to C. Matapan 2,400 m., from C. St. Vincent to the Kara Strait 3,455 m. Total area 3,864,744 sq. m., incl. Peninsulas 350,000 sq. m., Islands 248,000 sq. m.

Relief: The Alps (Mt. Blanc 15,700 ft.) form the backbone of the most vital part of the continent, and constitute a well-marked physical boundary between N. and S. They send branches into Italy and the Balkan Peninsula, and reappear eastward in the Carpathians (Tatra 8,740 ft.). On their outer side they are encircled by the Cevennes, the Jura, and other ranges, the land thus enclosed constituting a tableland. Isolated mountain-ranges are those of Scandinavia, of the Iberian Peninsula (Pyrenees 11,170 ft.) and the Ural. The 'great Lowland' of Europe stretches from the Pyrenees to the Ural, and from the Arctic to the Black Sea. It covers over 2 mill. sq. m. Minor plains are those of Hungary, of Romania, and of the Po.

Hydrography: Rivers numerous, and give ready access to the heart of the continent. The only continental basin is that of the Caspian S., fed by the Volga (drainage area 563,630 sq. m.). Other large rivers are: Danube (315,416 sq. m.), Dnieper (203,480 sq. m.), Don (166,120 sq. m.), Dvina (141,080 sq. m.), Pechora (127,260 sq. m.), and Rhine (86,640 sq. m.). Ladoga (7,000 sq. m.) is the largest lake.

Climate: The greater part of Europe lies within the temp. zone, and owing to the beneficent influence of the Gulf Stream the extremes of heat and cold are moderated, and the rainfall is sufficient. Under the Arctic Circle, on the coast of Norway, the mean temp. is the same as at Quebec, 47° N.

Population (estimated for 1895): 373,949,000, or 97 to a sq. m. (Belgium, 561; Un. Kingdom, 323; Russia, 52; Norway, 17).

Races: 1. European Aryans 344,919,000, incl. 117,092,000 Teutons, 112,750,000 Greco-Latins, 106,284,000 Slavs. 2. Asiatic Aryans (Gypsies, &c.) 674,000. 3. Semites (Jews, &c.) 7,658,000. 4. Mongolians (Turks and Tatars, Magyars, Fins, &c.) 20,694,000.

Religions: 1. Christians, 359,374,000 (169,100,000 Rom. Cath., 95,500,000 Greek Cath., 94,619,000 Protestants, 155,000 Armenians); 2. Jews, 7,578,000; 3. Mohammedans, 6,505,000; 4. Buddhists, &c., 155,000; 5. Heathen (incl. most of the Gypsies), 337,000.

Political Divisions: Three great State-systems (according to language or nationality) viz., 1. *Teutonic States* 829,766 sq. m., pop. 132,758,000, of whom Teutons 82 p.c., Protestants 61 p.c. 2. *Greco-Latin States* (incl. Belgium and Romania) 633,841 sq. m., pop. 105,415,200, of whom Greco-Latin 93 p.c., Rom. Cath. 92 p.c. 3. *Slav States* (incl. Bosnia) 2,161,446 sq. m., pop. 110,536,000, of whom Slavs 80 p.c., Greek Cath. 74 p.c. 4. *Hungary* 125,611 sq. m., pop. 19,490,000, of whom Magyars 42 p.c., Rom. Cath. 55 p.c. 5. *Turkey* 67,910 sq. m., pop. 5,750,000, of whom Turks 12 p.c., Moham. 41 p.c.

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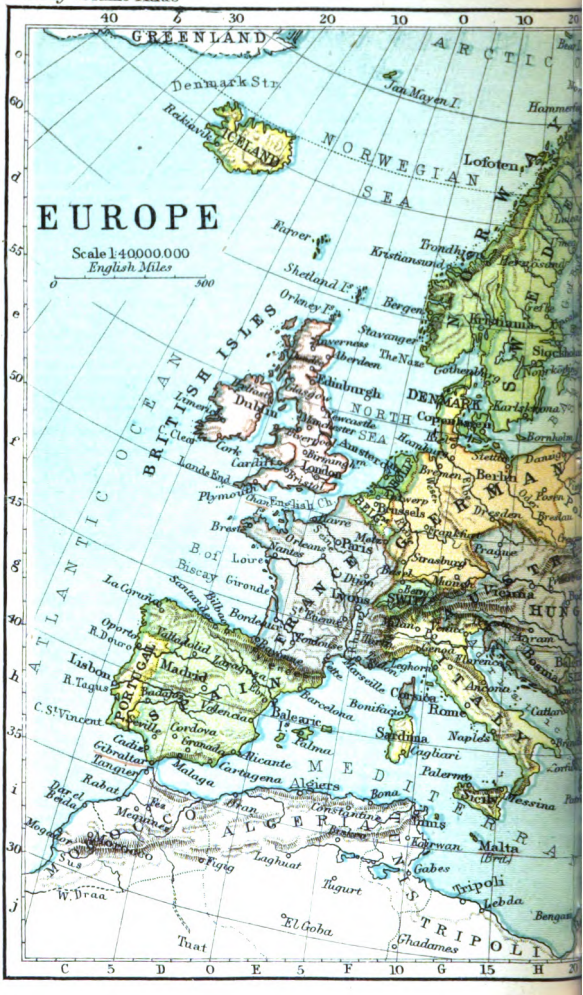

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Plate 5

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THE BRITISH ISLES.

Physical Features: The British Isles lie off the coast of W. Europe, from which they are separated by a channel only 21 miles wide; and in the centre of that hemisphere which contains most land. The surface is diversified. The culminating point is Ben Nevis, 4,406 ft.

Climate: Mild, the cold of winter being moderated by the warm Gulf Stream. In the lowlands the mean temp. of the year varies from 45-52°, that of Jan. from 35-45°, of July from 52-57°. The rainfall averages 30 in., and is heaviest along the W. coasts.

Area: Great Britain 83,708 sq. m., Ireland 32,365 sq. m., smaller islands 4,831 sq. m.; total 120,904 sq. m.

Population: (1891) 37,788,530 (incr. in 10 years 8·2 p.c.). Between 1853-93 7,759,333 persons of British origin emigrated, but this loss has been made good in some measure by immigration, for in 1891 there lived in the United Kingdom 400,629 persons of colonial or foreign birth.

Religion: 5,200,000 Roman Catholics, 100,000 Jews, the remainder—nearly all at least nominally Protestants.

Occupations: Of the total pop. (1891) 55 p.c. consisted of wives, children, &c., without regular occupation. Of the remainder 8 p.c. followed professions, 15 p.c. was engaged in agriculture and fishing, 54 p.c. in industries, 9 p.c. in commerce, and 14 p.c. rendered domestic services.

Agriculture: Of the total area 36 p.c. is cultivated, 58 p.c. consists of permanent pastures, 6 p.c. is covered with woods. Oats, turnips, and wheat are the principal crops, and the pastures are steadily encroaching upon the corn and green crops. In 1894 there were 10,810,000 cattle, 30,283,000 sheep, and 3,454,000 pigs.

Fisheries: These employ 120,000 men, and yield annually fish worth nearly 9 million pounds.

Mining: The coal and metals produced within the United Kingdom have an annual value of about £84,330,000, and include 177,197,000 tons of coal, 7,035,000 tons of pig iron, besides copper, lead, tin, silver, and even gold.

Manufactures: As a hive of manufacturing industry the British Islands are unrivalled. The textile industries alone (1890) employed 1,084,631 hands, 54 million spindles, and 822,489 power-looms.

Communications: Railways (1893) 20,646 miles, canals 3,812 miles; a merchant marine of 16,828 vessels of 8,541,388 tons. Vessels of 67 mill. tons annually enter the ports of the British Isles, and of these 56 mill. are British.

Commerce: Imports of merchandise £455 mill. (129 mill. from colonies); of Exports of British produce £231 mill. (to colonies 80 mill.), of foreign and colonial produce £62 mill. Of the imports 44 p.c. consisted of food, only 25 p.c. of manufactured goods, whilst the latter constituted 90 p.c. of the exports. The annual consumption of foreign produce averages per head, 243 lbs. of wheat, 27 lbs. of meat, 9 lbs. of rice, 8 lbs. of potatoes, 80 lbs. of sugar, and 5½ lbs. of tea. The total consumption of spirits amounts to 8 pints, and of beer to 239 pints a head!

Government: The "United Kingdom" is a hereditary and limited monarchy, the legislative powers being exercised by the Sovereign, the House of Lords, and a popularly elected House of Commons. Revenue about £91 mill., of which £75,200,000 is raised by taxation; local rates £35,000,000, or altogether £2 18s. 4d. per head. *Army*: 217,000 men (111,000 abroad); reserves and auxiliary forces, 440,000 men. *Navy*: 486 vessels.

Colonial Empire, *see* Map 2.

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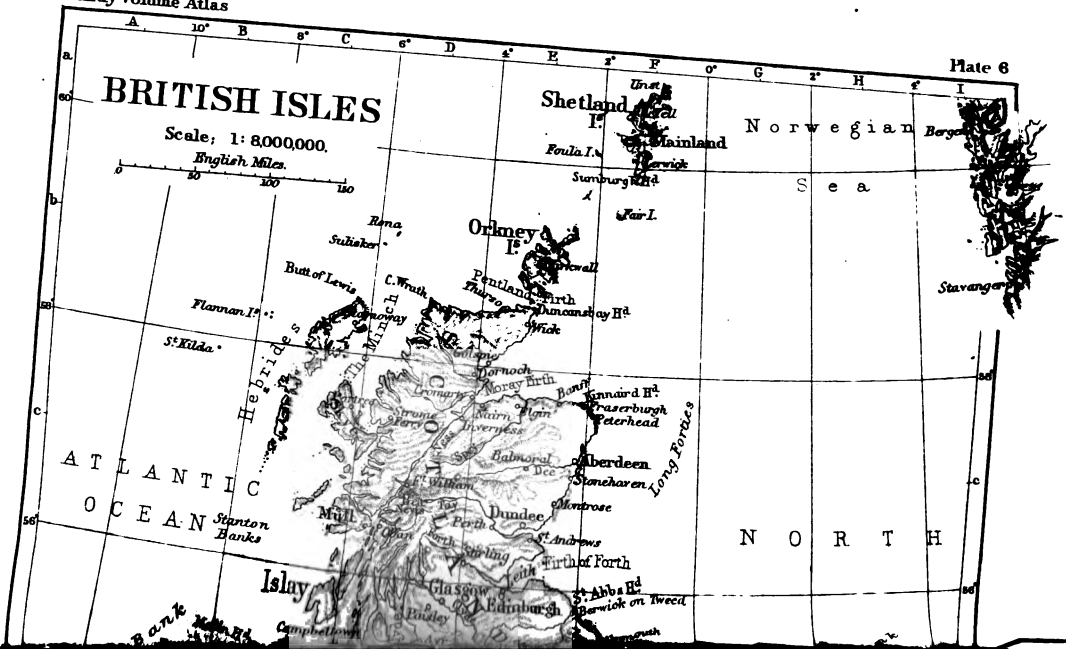

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ENGLAND & WALES.

Physical Features: England and Wales occupy the larger southern portion of Great Britain. The surface features exhibit much diversity, corresponding with the variety of geological formations. The Pennine Chain (Cross Fell, 2,892 feet), forms the backbone of N. England, stretching from the Cheviots to the Weaver Hills, in Derbyshire. West of it rise the Cumbrian Mts. (Sca Fell Pike, 3,210 ft.) The Cambrian Mts. (Snowdon, 3,570 ft.) fill the peninsula of Wales, whilst Exmoor (1,707 ft.), Dartmoor (2,077 ft.), and other hills crowd the Cornish peninsula. Whilst the more ancient rocks form these mountains, the hills of S.E. and E. England belong to the Oolitic and Cretaceous formations, the former occupying a band of country stretching from the Dorset Heights to the York Moors, the latter forming the Chilterns, the Downs, and York Wolds.

The most important rivers are the Tyne, Humber (Ouse and Trent), Thames (and Medway), the Severn, Dee, and Mersey.

Climate: Mean temperature at Penzance 52°, at Carlisle 48°; temp. of Jan. 43° and 38°, of July 62° and 59°. Rainfall heaviest in the hills of Cumberland, Wales, Devon, and Cornwall; least along the East Coast (Lowestoft 24 in., Borrowdale 144 in.).

Area: England, 50,867 sq. m.; Wales, 7,442 sq. m.

Population: (1891) England 27,708,392, Wales 1,294,133, increase 1881-91 16 p.c.; in towns of over 50,000 inh. 51 p.c.

Religion: The Established Church is governed by 2 Archbishops (Canterbury and York) and 33 Bishops, and counts a majority of the people among its adherents. Its annual income exceeds £7 mill. Roman Catholics about 1,250,000.

Education: 3 Universities and 14 University Colleges, with 15,000 students; Elementary Schools, average attendance 4,100,000.

Occupations: Agricultural class 10 p.c., commercial 11 p.c., industrial 57 p.c., professional 7 p.c., domestic 15 p.c.

Agriculture: Of the total area 34 p.c. is cultivated, 40 p.c. consists of permanent pastures, 7 p.c. heaths, 5 p.c. is covered with woods. The live stock (1894) included 5,145,607 cattle, 18,588,636 sheep, and 2,241,481 pigs.

Mining: There are 5 principal coal-fields (Durham and Northumberland, York and Derby, Lancashire, Staffordshire, and South Wales). Iron is won principally in South Wales, Staffordshire, Cleveland, and Furness. Other minerals of importance are tin, lead, copper, zinc, and rock-salt.

Manufactures: The textile manufactures (1890) employ 858,252 hands. Lancashire is noted for cottons, Yorkshire for woollens, Leicester and Nottingham for hosiery and lace, Bradford, Macclesfield, Coventry, and Derby for silks, Birmingham for hardware, Sheffield for cutlery, Staffordshire for earthenware, the Tyne Valley for its glass-works, the Tyne ports, Birkenhead, and London for shipbuilding.

Communications: Railways 14,440 miles, tramways 761 miles, canals 3,050 miles.

Divisions: England and Wales, for purposes of local administration, is divided into 61 administrative counties, 64 county boroughs, and 937 other urban sanitary districts.

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. The Counties of England are arranged in Alphabetical Order.
See also Maps 9, 10, 11, & 12.

ENGLAND & WALES.

ENGLAND (Administrative Counties).

County Boroughs thus—*Reading*; Assize towns marked with an asterisk *

Bedfordshire: 466 sq. m., pop. 160,704; agric. midland county, straw-plaiting and lace manufactures. * Bedford (28,023), Luton (30,006), Dunstable (4,513), Leighton Buzzard (6,704), Biggleswade (4,943).

Berkshire: 721 sq. m., pop. 236,163; agric. midland county. * *Reading*, biscuit bakery, foundries, &c. (60,054); Newbury (11,002), Wallingford (2,989), Abingdon (6,557), Maidenhead (10,607), Windsor (12,387), Wokingham (3,254).

Buckinghamshire: 743 sq. m., pop. 160,704; agric. midland county (butter, ducks), manufacture of wooden ware, straw plaiting, &c. Buckingham (3,364), * Aylesbury (8,680), Wycomb (13,435), Eton (2,494).

Cambridgeshire: 485 sq. m., pop. 121,961; agric. midland county. * Cambridge, univ. town (36,983); * Chesterton (7,526).

Cheshire: 1,023 sq. m., pop. 743,869. Surface mostly level, juts out in the Wirral Peninsula between the Mersey and the Dee. Mainly agric., but coal is worked in the East, salt won in the centre, whilst the towns in the N.E. are engaged in the cotton and silk industries. * *Chester* city (37,105), *Birkenhead* (99,857), *Stockport* (70,263). Other towns, Crewe (32,783, railway works); Northwich (7,412), Hyde (30,670), Stalybridge (26,783), Macclesfield (36,009), Congleton (10,744).

Cornwall: 1,357 sq. m., pop. 322,571; a maritime county, with bold coasts rising inland into rugged hills (Brown Willy, 1,368 ft.), rich in tin and copper, granite and china-clay; early vegetables and fisheries. Penzance (12,432), Helston (3,198), Falmouth (4,737), Penryn (3,256), Truro (11,131), Saltash (2,745), St. Ives (6,094), Redruth (10,324), * Bodmin (5,151), Liskeard (3,987), and Launceston (4,343).

Cumberland: 1,047 sq. m., pop. 266,549. Famed for its mountain and lake scenery (Sca Fell, 3,210 ft.). Coal and iron mines, but mainly agricultural. * Carlisle (39,176), famous border-town and cathedral city; Penrith (8,981), Keswick (3,905), on Derwent Water; Whitehaven (18,038), Workington (23,490), and Maryport (8,784), coal mines and ironworks.

Derbyshire: 1,027 sq. m., pop. 520,914; picturesque inland county, rich in iron, coal and lead, with manufactures of cotton and hosiery. * *Derby* (94,146), Ilkeston (19,744), Matlock (5,285), Buxton (7,540), Glossop (22,416), and Chesterfield (22,009).

Devonshire: 2,605 sq. m., pop. 631,808; a beautifully-wooded maritime county, the barren granitic Dartmoor (2,077 ft.) occupying its centre; famed for its orchards, dairy produce and market gardens; granite and slate quarries, and potters' clay. *Plymouth* (84,249), *Devonport* (54,803), * *Exeter* city (37,404), Dartmouth (6,025), Torquay (25,534), Totnes (4,016), Honiton (3,216, lace), Axminster (2,809), Tiverton (10,892), Okehampton (1,879), South Molton (3,126), Great Torrington (3,436), Bideford (7,831), Barnstaple (13,058), and Ilfracombe (7,692).

For continuation see next map.

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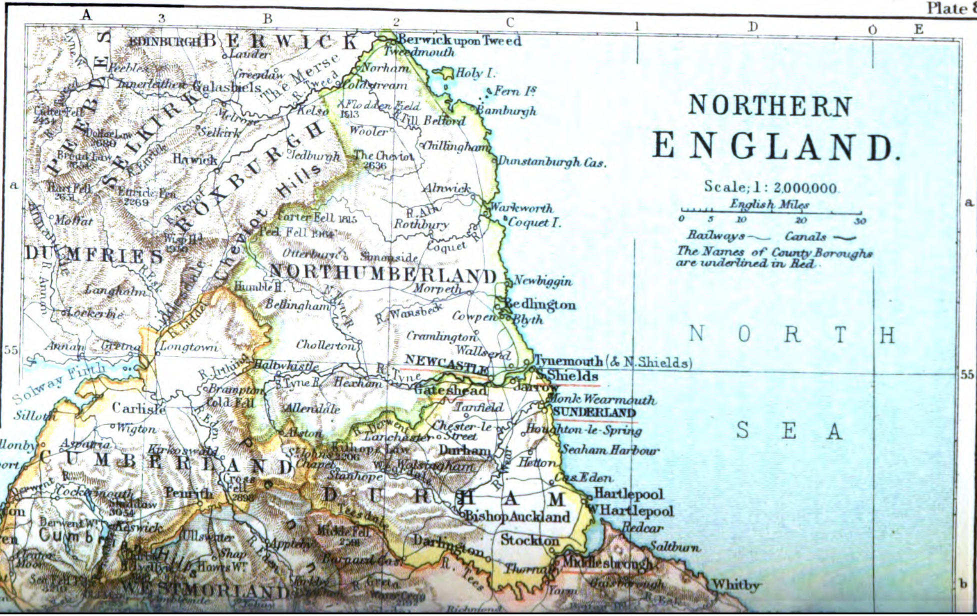

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ENGLAND (Administrative Counties), *continued.*

County Boroughs thus—*Reading*; Assize towns marked with an asterisk *

Dorset: 988 sq. m., pop. 194,517; a maritime county, rising into chalk downs, and noted for dairy and sheep farming, and quarries (Portland stone). Poole (15,438, Swanage, Isle of Purbeck (2,674), Weymouth, with Melcombe Regis (13,866), Portland (breakwater, 9,443), Bridport (6,611), Lyme Regis (2,363), Wareham (2,141), *Dorchester (7,946), Blandford Forum (3,974), and Shaftesbury (2,122).

Durham: 1,011 sq. m., pop. 1,016,559; maritime county, extending between the Tyne and Tees to the moorlands of the Pennine Range (Crossfell, 2,898 ft.) Rich in coal, iron, and lead, with important iron and steel works, chemical works, worsted mills (at Darlington), and other manufactures. *Gateshead* (85,692), Jarrow (33,675), and *South Shields* (78,391), on the Tyne; *Sunderland* (131,015), on the Wear; Hartlepool (21,271), West Hartlepool (42,710), and Stockton (49,708), on the Tees; *Durham City and University (14,863), and Darlington (38,060).

Ely, Isle of: 374 sq. m., pop. 63,861; midland county. Ely City (8,017), Wisbech (9,395), March (6,988).

Essex: 1,540 sq. m., pop. 784,258; maritime agricultural county, north of the Thames, with maritime trade, and limited silk manufacture, &c. *West Ham* (204,903), Leyton (63,056), Barking (14,301), Epping (26,137), all suburbs of London; Southend (12,333), *Chelmsford (11,308), Maldon (5,397), Braintree (5,303), Harwich (8,202), Colchester (34,559), Saffron Waldon (6,104).

Gloucestershire: 1,245 sq. m., pop. 545,574, includes the fertile vale of the Severn lying between the pastoral Cotswold Hills (Cleeve Cloud, 1,134 ft.) and the Forest of Dean. Coals and iron are found, and Stroud is famed for its broadcloth. **Bristol*, with Clifton (221,578), **Gloucester* city (39,444). Tewkesbury (5,269), Cheltenham (42,914), Berkeley village (890), Stroud (9,818), and Cirencester (7,471).

Hampshire: 1,476 sq. m., pop. 611,425; a maritime agric. county, well wooded. *Winchester city (19,073), Romsey (4,276), *Southampton* (65,325), *Portsmouth*, naval arsenal (159,251, with Southsea), Gosport (24,432), Christchurch (3,994), Bournemouth (37,781), Andover (5,852), Basingstoke (8,213), Aldershot (25,595).

Herefordshire: 840 sq. m., pop. 115,949; agric. midland county, traversed by the Wye, with *Hereford (20,267), Leominster (5,675), and Ross (3,575).

Hertfordshire: 636 sq. m., pop. 224,550; agric. midland county, with man. of paper, straw-plait, silk and cotton thread. *Hertford (9,023), Ware (9,246), Bishop Stortford (6,595), St. Alban's (12,898), Hitchin (8,860), Barnet (5,496), Watford (16,824).

Huntingdonshire: 365 sq. m., pop. 54,969; agric. midland county. *Huntingdon (4,346), Godmanchester (2,095), St. Ives (3,037).

Kent: 1,524 sq. m., pop. 808,736; picturesque maritime county, with hop and fruit gardens, sheep, fisheries. Towns on the Thames and along the coast: Gravesend (23,876), Rochester city (26,290), Chatham (31,657), Sheerness (14,492), Queenborough (1,050), Whitstable, oysters (4,828), Margate (18,417), Ramsgate (24,733), Sandwich (2,796), Deal (8,891), Dover (33,300), Folkestone (23,905), Hythe (4,347), New Romney (1,369), Lydd (2,051).

Inland Towns:—*Canterbury* city (23,062), Ashford (10,728), Tenterden (3,429), *Maidstone (32,145), Faversham (10,748), Bromley (21,684), Sevenoaks (7,620), and Tunbridge Wells (27,895).

For continuation see next map.

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PART OF YORKS

Scale: 1:1,000,000 Railways — Canals ---

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The Names of County Boroughs underlined in Red

Statute Miles 0 5 10

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ENGLAND (Administrative Counties), *continued.*

County Boroughs thus—*Reading ;* Assize towns marked with an asterisk *

Lancashire : 1,879 sq. m. ; pop. 3,906,721. Consists of a main body, which rises from the Irish Sea to the summit of the Pennine Chain, and a detached portion, the Hundred of Furness, separated from the former by Morecambe Bay. The wealth of the county in coal and iron (Furness) has enabled it to become the busiest hive of industry in the world. Cotton is king ; but other industries flourish. Woollens and worsted are produced at Rochdale and Burnley ; oil-cloth, at Lancaster ; paper, at Bury ; glass, at St. Helens ; iron-castings, at Wigan ; machinery, at Oldham and Bolton ; chemicals, at Widnes ; and ships, at Barrow. Liverpool ranks next to London as a commercial port.

There are 14 County boroughs, viz. :—**Liverpool* (517,980), *Bootle* (49,217) ; **Manchester* (505,368)—now joined to the Mersey by a ship canal ; its neighbour, *Salford* (198,139), *Bolton* (115,002), *Bury* (57,212), *Oldham* (131,463), *Rochdale* (71,401), *St. Helens* (71,288), *Wigan* (55,013), *Preston* (107,573), *Blackburn* (120,064), *Burnley* (87,016), and *Barrow-in-Furness* (51,712).

The following are the Municipal boroughs :—Accrington (38,603), Ashton-under-Lyne (40,463), Bacup (23,498), Blackpool (23,846), Chorley (23,087), Clitheroe (10,815), Darwen (34,192), Eccles (29,633), Haslingden (18,225), Heywood (23,185), *Lancaster (31,038), Middleton (22,162), Mossley (14,162), Nelson (22,700), Rawtenstall (29,507), Southport (41,406), Warrington (52,743), and Widnes (30,011).

Leicestershire : 826 sq. m., pop. 375,092 ; midland county ; chief industries : dairy farming (Stilton cheese), coal mining, hosiery, and boot manufactures. **Leicester* (174,624), Loughborough (18,196), Melton Mowbray (6,392), Ashby de la Zouch (4,535).

Lincolnshire : 2,648 sq. m., pop. 473,912 ; agricultural ; mostly level, and towards the Wash and the head of the Humber marshy (Fens), but traversed by chalky Wolds (549 feet) and Oolitic uplands. It includes the adm. counties or "parts" of LINDSEY, 1,512 sq. m., pop. 292,480, with the cathedral city of **Lincoln* (41,491), and the fishing port of *Grimsby* 51,934) ; KESTEVEN, 737 sq. m., pop. 105,910, with Grantham (16,746) and Stamford (8,358) ; and HOLLAND, 399 sq. m., 75,522 inh., with Boston, whence the Pilgrim Fathers sailed in 1633 (14,593), and Spalding (9,014).

London : 118 sq. m., pop. 4,232,118. London, the capital of the British Empire, still ranks first among the cities of the world in population, in wealth, and commercial activity. The present "county" includes the most populous portions of the "ancient" counties of Middlesex, Surrey, and Kent, its chief governing bodies being a County Council, the Corporation of the City (671 acres, night pop. 37,705), a School Board, 33 Vestries or Local Boards of Sanitary districts, and the Home Office, which has not yet surrendered the control of the Metropolitan Police.

The pop. 1881-91 increased 10 p.c., but within the district of the Metropolitan Police (693 sq. m., pop. 5,633,806) the increase was 15 p.c.

Middlesex : 233 sq. m., pop. 560,012, mostly in suburbs of London, such as Tottenham (71,343), Hornsey (44,205), Willesden (61,265). More distant places are Brentford (13,738), Uxbridge (14,439), Harrow (8,725), Enfield (31,536).

For continuation see next map.

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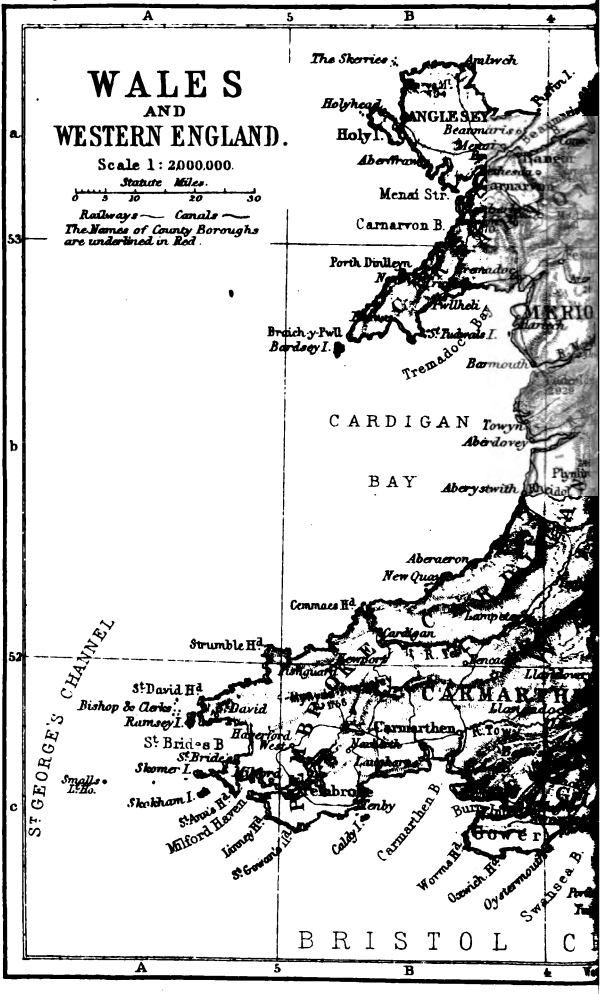

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ENGLAND (Administrative Counties), *continued.*

County Boroughs thus—*Reading;* Assize towns marked with an asterisk *

Monmouthshire: 542 sq. m., pop. 258,054; maritime county, rising from a low coast to a lofty plateau; rich in coal, iron, tin, and lead. *Newport* (54,707), Chepstow (3,378), *Monmouth (5,470) and, in the coal and iron district, Tredegar (17,341), Ebbw Vale (17,034), Blaenavon (11,452), and Pontypool (5,872).

Norfolk: 2,055 sq. m., pop. 468,287; maritime agricultural county, with fishery and inconsiderable manufactures. **Norwich* (100,970), *Great Yarmouth* (49,734), King's Lynn (18,360), Wells (2,555), Cromer (2,197), Thetford (4,247).

Northamptonshire: 999 sq. m., pop. 299,508, incl. of the Soke of Peterborough (82 sq. m., pop. 35,249); agric. midland county, with ironstone quarries and boot manufacture. **Northampton* (61,012), *Peterboro'* city (25,171), Kettering (19,451), Wellingborough (15,063), Daventry (3,937).

Northumberland: 2,015 sq. m., pop. 506,030. Northernmost county of England; extends from the Tweed to the Tyne, and rises into mountains in the West (Cheviot, 2,626 ft.). Rich coalfield in S.E., lead in the hills. **Newcastle* (186,300), engineering works, &c.; Tynemouth with N. Shields (46,588); Morpeth (5,219), Berwick (13,377), famous border town.

Nottinghamshire: 843 sq. m., pop. 445,753; agric., coal, lace, and hosiery. **Nottingham* (213,807), Newark (14,457), Retford (10,603), Mansfield (15,905), Worksop (12,734).

Oxfordshire: 758 sq. m., pop. 191,191; agric. midland county. **Oxford*, university town (45,742), Woodstock, glove manufacture (1,628), Witney, blankets (3,116), Henley-on-Thames (5,288), Banbury (12,768), Chipping Norton (4,222).

Peterborough, Soke of, *see* Northampton.

Rutland: 152 sq. m., pop. 20,659; midland county. **Oakham* (3,542), Uppingham (2,559).

Shropshire: 1,343 sq. m., pop. 236,339; Welsh border county, traversed by the Severn, hilly in the south, with coal, iron, and lead mines. **Shrewsbury* (26,967), Oswestry (8,496), Bridgnorth (5,865), Wenlock (2,180), Ludlow (4,460), and Bishop's Castle (1,586).

Somerset: 1,629 sq. m., pop. 438,710; a maritime county on the Bristol Channel, of diversified surface, with orchards and dairy farms (Cheddar cheese), coal and other mines, manufactures of woollen and worsted, leather gloves (Yeovil, Taunton), and potteries. *Bath* (51,844), Weston-super-Mare (15,864), Frome (9,613), Glastonbury (4,119), **Wells* city (4,822), Bridgwater (12,436), **Taunton* (18,026), Yeovil (9,648), and Chard (2,575).

Staffordshire: 1,171 sq. m., pop. 1,087,161; midland county, rich in coal and iron. **Stafford* (20,270), Lichfield city (7,864), Tamworth (6,614), Burton-upon-Trent (46,047, breweries). In the "Potteries":—*Hanley* (54,946), Stoke-upon-Trent (27,027), Burslem (31,999), Newcastle-under-Lyne (18,452), and Longton (34,327). In the "Black Country":—*Wolverhampton* (82,062), *Walsall* (71,789), Wednesbury (25,342), and *West Bromwich* (59,474).

Suffolk: 1,481 sq. m., pop. 361,790; marit. agric. county, fishery, manufacture of agric. implements.

EAST SUFFOLK: 872 sq. m., pop. 240,838. **Ipswich* (57,360), Aldeburgh (2,159), Southwold (2,311), Lowestoft (23,347), Beccles (6,669), Eye (2,064), Stowmarket (4,339).

WEST SUFFOLK: 609 sq. m., pop. 120,952; agric. midland county. **Bury* St. Edmunds (16,630), Sudbury (7,059), Newmarket (6,213).

For continuation see next map.

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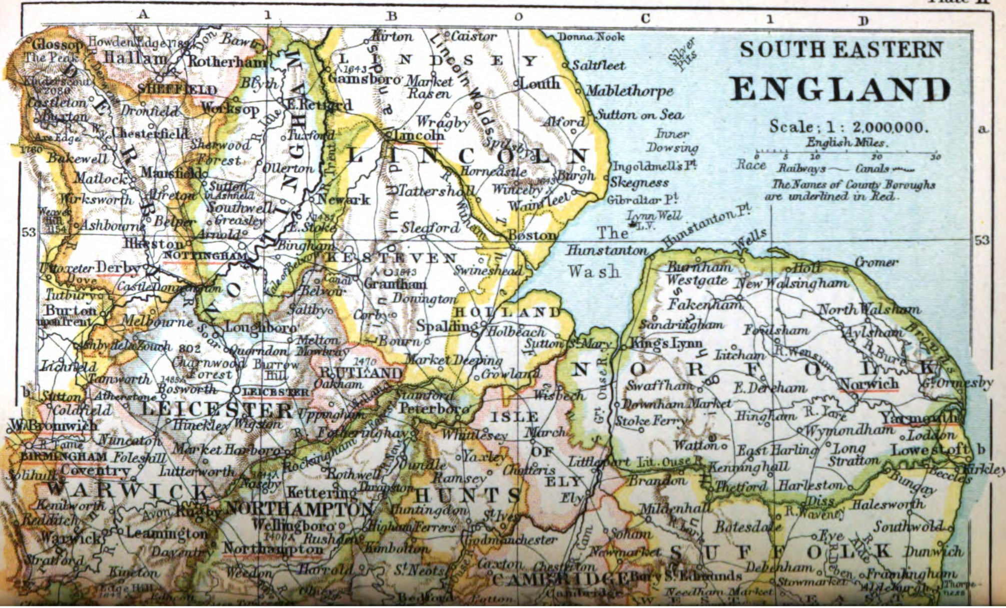
SOUTH EASTERN
ENGLAND
Scale; 1 : 2,000,000.
English Miles.
0 5 10 20 30
Railways — Canals
The Names of County Boroughs are underlined in Red.
A
1
B
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a
b
53
53
LINDSEY
LINCOLN
KESTEVEN
HOLLAND
NOTTINGHAM
DERBY
LEICESTER
RUTLAND
NORTHAMPTON
HUNTS
WARWICK
ISLE OF ELY
CAMBRIDGE
NORFOLK
SUFFOLK
The Wash
Lincoln Wolds
Inner Dowsing
Race
Donna Nook
Saltfleet
Mablethorpe
Sutton on Sea
Ingoldmell's Pt.
Skegness
Gibraltar Pt.
Lynn Well
Hunstanton Pt.
Hunstanton
Boston
Lincoln
Louth
Gainsboro
Market Rasen
Grantham
Sleaford
Spalding
Newark
Nottingham
Derby
Sheffield
Rotherham
Chesterfield
Mansfield
Worksop
Leicester
Loughboro
Peterboro
Stamford
Oakham
Kettering
Northampton
Wellingboro
Huntingdon
St. Ives
St. Neots
Cambridge
Ely
Wisbech
March
King's Lynn
Swaffham
Fakenham
Cromer
Norwich
Yarmouth
Lowestoft
Thetford
Bury St. Edmunds
Newmarket
Birmingham
Coventry
Rugby
Leamington
Warwick

ESSEX
SURREY
KENT
HANTS
SUSSEX
MIDDLESEX
LONDON
ENGLISH CHANNEL
Strait of Dover
FRANCE
Oxford
Reading
Windsor
Newbury
Basingstoke
Winchester
Southampton
Salisbury
Portsmouth
Chichester
Brighton
Hastings
Canterbury
Dover
Folkestone
Margate
Ramsgate
Chelmsford
Maidstone
Tunbridge Wells
Guildford
Croydon
Gravesend
Rochester
Chatham
Sheerness
Eastbourne
Beachy Head
Newhaven
Worthing
Littlehampton
Bognor
Selsey Bill
Hayling I.
Ventnor
Newport
I. of Wight
Christchurch
Bournemouth
Boulogne
R. Canche
Dunge Ness
South Foreland
Goodwin Sands
Long Sand
Foulness I.
Clacton
Walton
The Naze
B West of Greenwich 0 East of Greenwich C
G. Philip & Son.

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ENGLAND (Administrative Counties), *continued.*

County Boroughs thus—*Reading*; Assize towns marked with an asterisk *

Surrey: 721 sq. m., pop. 521,551; picturesque midland county, rising in Leith Hill 965 ft.; supplies London with fruit and vegetables. *Croydon* (102,695), Reigate (22,646), Kingston (27,059), Richmond (22,648), Kew (2,076), Epsom (8,417), Dorking (7,132), *Guildford (14,020), Godalming (2,797).

Sussex: 1,458 sq. m., pop. 548,979; a maritime agric. county, famed for its sheep, fed on the South Downs, and its many watering places.

EAST SUSSEX: 829 sq. m., pop. 408,360. *Brighton* (115,873), *Hastings* (52,223), Eastbourne (34,969), *Lewes (3,871), Newhaven (4,955), Rye (3,871).

WEST SUSSEX: 629 sq. m., pop. 140,619. Chichester city (7,830), Arundel (2,644), Worthing (16,606).

Warwickshire: 904 sq. m., pop. 838,030; midland county, with coal mines and hardware manufacture. **Birmingham*, the "toyshop" of Europe (478,113), *Coventry* (52,724), *Warwick (11,902), Leamington (26,930), Stratford-on-Avon (8,318), Rugby (11,262), and Sutton Coldfield (8,685).

Westmoreland: 782 sq. m., pop. 66,098; a pastoral county abounding in fine lake scenery. *Appleby (1,776), Kendal (14,430), woollen manufactures; Ambleside (2,360), tourist headquarters on Windermere.

Wight, Isle of: 146 sq. m., pop. 78,672. Newport (10,216), Cowes (10,562), Ryde (10,952), Ventnor (5,817).

Wiltshire: 1,375 sq. m.; pop. 264,997. A county of chalk downs, famed for dairy and sheep farming, its broadcloth (Trowbridge, Bradford), carpets (Wilton), and locomotive works (Swindon), *Salisbury city (15,533), Wilton (2,120), Trowbridge (11,717), Bradford-on-Avon (4,913), Chippenham (4,816), Calne (3,495), *Devizes (6,426), Marlborough (3,012), Malmesbury (2,964), and Swindon (32,840).

Worcestershire: 751 sq. m.; pop. 385,309. Well wooded midland county, with coal and iron mines, iron works, and other manufactures. **Worcester* (42,908), Evesham (5,836), Malvern (6,107), Droitwich, salt works (4,021), Redditch, needles (11,295), Kidderminster, carpets (24,803), *Dudley* (45,740), Stourbridge (9,386), and Bewdley (2,876), iron works.

Yorkshire, 6,076 sq. m., pop. 3,213,864, includes three distinct regions; the Western Moorlands, which extend across the Pennine Chain (Great Whernside, 3,210 feet); the fertile Vale of York, watered by the Ouse, in the centre; and the barren Moors and chalk Wolds in the east.

The NORTHERN RIDING, 2,132 sq. m., pop. 427,373, includes the famous old city of **York* (67,007), *Middlesbrough* (75,537), whose prosperity is derived from the neighbouring iron-ores of Cleveland, Richmond (4,216), Scarborough (33,776), Whitby (13,075), and *Northallerton (3,802).

The WESTERN RIDING, 2,772 sq. m., pop. 2,444,931, abounds in coal, and is one of the great manufacturing centres of the world; Bradford, Leeds, Huddersfield and Halifax being great clothing towns, Leeds and Barnsley noted for linens, Wakefield for blankets, and Sheffield for cutlery and plated ware. There are 5 county boroughs—viz., **Leeds* (367,505), *Bradford* (216,361), *Halifax* (89,832), *Huddersfield* (95,420), and *Sheffield* (324,243). The municipal boroughs are Barnsley (35,427), Batley (28,719), Dewsbury (29,847), Doncaster (25,933), Harrogate (13,917), Keighley (30,810), Morley (21,068), Ossett (10,984), Pontefract (9,702), Ripon (7,511), Rotherham (42,061), and *Wakefield (33,146). Goole (15,416) is the principal port.

The EASTERN RIDING, 1,172 sq. m., pop. 341,560, includes the Wolds and the level district of Holderness, and is essentially agricultural and pastoral. Within it lie *Hull* (200,044), the great port of Yorkshire on the Humber, and the boroughs of Beverley (12,539) and Hedon (979).

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WALES.

The Principality of Wales was finally united with England in 1283. It is essentially a mountain country, rising in Snowdon to 3,570 feet, and having but one level tract of considerable extent, namely, the Vale of Glamorgan, on the Bristol Channel. The Dee, Severn, and Wye take their rise in Wales. Bala is its largest lake.

Area 7,442 sq. m., pop. 1,294,133 (increase 1881-91, 12 p. c.); more than half of the inhabitants speak Welsh.

The hills afford excellent pasturage for sheep and cattle, and only 18 p. c. of the area is under the plough, but there are 3 mill. sheep and 720,000 cattle. The mineral wealth is considerable, and includes coal and iron in Glamorgan, Flint, and Denbigh, besides tin, lead, copper, gold, and slates. Glamorgan, with its furnaces, copper, tin, and lead works, is a great centre of industry. Cardiff is the third port of the United Kingdom.

The counties and principal towns are as follows :—

Anglesey : 275 sq. m. ; pop. 50,098. *Beaumaris (2,202), Holyhead (8,745).

Brecon : 734 sq. m. ; pop. 51,393. *Brecknock (5,646), Brynmawr (6,412).

Cardiganshire : 692 sq. m. ; pop. 63,467. Aberystwith (6,725), Cardigan (3,449), *Lampeter (1,569).

Carmarthenshire : 919 sq. m. ; pop. 130,566. *Carmarthen (10,300), Kidwelly (2,732) Liandovery (1,728), Llanelly (23,937).

Carnarvonshire : 563 sq. m. ; pop. 117,233. Bangor (9,892), *Carnarvon (9,807). Conway (3,442). Pwlheli (3,231), Llandudno (7,349).

Denbighshire : 664 sq. m. ; pop. 118,843. Denbigh (6,412), *Ruthin (2,760), Wrexham (12,552).

Flintshire : 256 sq. m. ; pop. 77,277. Flint (5,247), *Mold (4,457), Holyweil (3,018), Rhyl (6,491).

Glamorganshire : 790 sq. m. ; pop. 467,954. **Cardiff* (128,915), **Swansea* (90,349), Aberavon (6,300), Cowbridge (1,377), Neath (11,113), Merthyr Tydfil (58,050), Llandaff (4,373).

Merionethshire : 668 sq. m. ; pop. 49,212. *Dolgelly (2,467), Barmouth (2,045), Bala (1,622).

Montgomeryshire : 797 sq. m. ; pop. 58,003. Montgomery (1,098), *Welshpool (6,501), Llanidloes (2,574), Llanfylin (1,758).

Pembrokeshire : 613 sq. m. ; pop. 88,296. Pembroke (14,978), *Haverfordwest (6,179), Tenby (4,542), Milford (4,070).

Radnorshire : 471 sq. m. ; pop. 31,791. *Presteign (1,360).

ISLE OF MAN.

An island in the Irish Sea. 227 sq. m., pop. 55,608; pastoral and agric., with mines of lead, zinc, and copper. Rises in the Snae Fell to 2,035 feet. *Towns:* Castletown (2,300), Douglas (19,515), Ramsey (4,866), and Peel (3,800).

CHANNEL ISLANDS.

A group of islands off the coast of France, the last remnant of the possessions of William the Conqueror. 75 sq. m., pop. 92,234; export of market produce, important fisheries. The islands are governed in accordance with ancient charters, and French is the official language. The chief towns are St. Helier, on Jersey, and St. Peter's Port, on Guernsey.

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Plate 13

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SCOTLAND.

Physical Features: Scotland occupies the N. part of Great Britain. It is essentially a mountain country, with coasts deeply indented by Fiords (Firths or Sea lochs). Glenmore divides the Northern Highlands from the Grampians (Ben Nevis, 4,604 ft.), which are separated from the S. Uplands (Merrick, 2,767 ft.) by Strathmore, and the plain extending from the Forth to the Clyde.

Tweed, Forth, Tay, Dee, Spey, and Clyde are the principal rivers, and, except the Clyde, they all flow into the North Sea. Lakes are numerous, and cover 633 sq. m.

Climate: Mean ann. temp. in Lowlands, 46-47° F.; (Jan. 37°, July 56-59°). Rainfall: Edinburgh 27 in., Glasgow 40 in., Ben Nevis 128 in.

Area: 29,819 sq. m. (mainland 25,033 sq. m., islands 3,886 sq. m.).

Population: (1891) 4,025,647 (increase in 10 years 7.8 p.c.); in towns of over 50,000 inh. 34 p.c.

Language: Gaelic is still spoken by 254,415 persons (6.3 p.c.).

Religion: The Established Church no longer commands the allegiance of a majority. Roman Catholics about 360,000.

Education: 4 Universities (6,382 students); Elementary Schools, average attendance 542,000.

Occupations: Agricultural class 14 p.c., commercial 10 p.c., industrial 58 p.c., professional 6 p.c., domestic 12 p.c.

Agriculture: Of the total area 18 p.c. is cultivated, 7 p.c. consists of permanent pasture; 4.8 of mountain heath, used for grazing; 5 p.c. is covered with woods. The Deer Forests cover 4,020 sq. m. The live stock (1894) included 1,201,506 cattle, 7,272,864 sheep, 148,535 pigs.

Fisheries: They employ over 50,000 men, and yield annually 310,000 tons of fish, valued at £2,000,000. Dundee whalers still frequent the Arctic and Antarctic regions.

Mining: Lanark and Ayrshire are rich in coal and iron; lead is mined in the Lowther Hills; copper near Loch Tay.

Manufactures: The textile industries employ (1890) 154,591 hands. Glasgow and Paisley are centres of the cotton manufacture, the Valley of the Tweed of the woollen trade, Dundee of the jute and linen trades. Shipbuilding and engineering works are most important on the Clyde.

Communications: Railways 3,315 miles, canals 153 miles.

Government: Since the Act of Union, 1707, Scotland forms one kingdom (Great Britain) with England, but still retains many institutions peculiar to it, including a distinct Code of Law, and a Presbyterian Established Church.

Divisions: 33 Counties.

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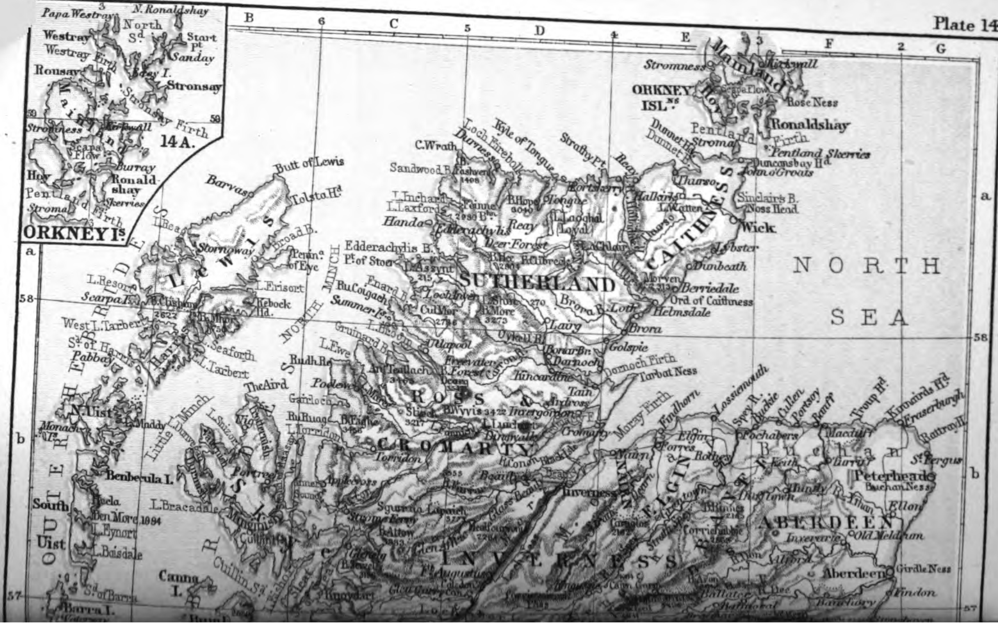

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SCOTLAND
Scale 1:3,000,000
Statute Miles
0 5 10 20 30 40
Railways thus
PERTH
ARGYLL
FIFE
STIRLING
DUMBARTON
RENFREW
LANARK
AYR
EDINBURGH
HADDINGTON
BERWICK
PEEBLES
SELKIRK
ROXBURGH
DUMFRIES
KIRKCUDBRIGHT
WIGTOWN
BUTE
ENGLAND
IRELAND
INNER HEBRIDES
Tyree I.
Ulva I.
Staffa
Iona I.
Colonsay
Rudha Mhail
Islay
Jura
Bowmore
Rhynns Pt.
Mull of Oa
Gigha I.
Sound of Jura
Firth of Lorne
Oban
Dalmally
Inveraray
Lochgilphead
Ardrishaig
Tarbert
Rothesay
Greenock
Helensburgh
Dumbarton
Glasgow
Paisley
Largs
Barrhead
Hamilton
Coatbridge
Airdrie
Wishaw
Lanark
Carstairs
Kilbrennan Sd.
Arran
Goat Fell 2866
Ardrossan
Saltcoats
Irvine
Troon
Ayr
Kilmarnock
Cumnock
Firth of Clyde
Kintyre
Campbeltown
Mull of Kintyre
Sanda I.
Ailsa Craig
Girvan
North Channel
Corsewall Pt.
L. Ryan
Rhinns
Stranraer
Glenluce
P. Patrick
Luce B.
Mull of Galloway
Whithorn
Wigtown B.
Wigtown
Newton Stewart
Castle Douglas
Kirkcudbright
Dalbeattie
Criffel 1800
Solway Firth
Burrow Hd.
Dumfries
Annan
Gretna
Lockerbie
Langholm
Moffat
Sanquhar
Leadhills
Lowther
Queensberry
Nithsdale
Annandale
Crieff
Perth
Dundee
Broughty Ferry
Carnoustie
Glamis
Arbroath
Dunkeld
Firth of Tay
Bell Rock
Tay Port
St. Andrews
Cupar
Abernethy
Fife Ness
Largo
Anstruther
Kinross
L. Leven
Dysart
Kirkcaldy
Firth of Forth
N. Berwick
Dunbar
Dunfermline
Alloa
Dunblane
Callander
Trossachs
Aberfoyle
B. Vorlich
B. More
Stirling
Bannockburn
Falkirk
Bo'ness
Linlithgow
Leith
Portobello
Musselburgh
Haddington
Dalkeith
St. Abbs Hd.
Eyemouth
Berwick
Holy I.
Duns
Lauder
Greenlaw
Coldstream
Flodden Field
Kelso
Melrose
Galashiels
Selkirk
Jedburgh
Hawick
Peebles
Tweed
Cheviot Hills
The Cheviot 2676
Wooler
Tinto Hill 2325
Culter Fell
Broad Law
Ettrick Pen
Coquet R.
Otterburn
Bellingham
Carlisle
Brampton
Longtown
Haltwhistle
Allendale
Alston
Cross Fell 2892
Penrith
Appleby
R. Tees
R. Tyne
Silloth
Allonby
Maryport
Cockermouth
Workington
Keswick
Skiddaw
Londonderry
Inishtrahull
Giant's Causeway
Culdaff
Moville
Portrush
Coleraine
Rathlin I.
Newtown Limavady
Trostan 1826
Cushendun
Carnlough
Larne
Belfast L.
BELFAST
Eoyle
G. Philip & Son.

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SCOTLAND (Counties).

Aberdeenshire: 1,955 sq. m., pop. 284,036. Maritime county, watered by the Dee (near its head, Ben Macdhui, 4,296 ft.), granite quarries, stock raising, fisheries, paper mills. Aberdeen (124,943), Peterhead (12,226), Fraserburgh (7,469).

Argyllshire: 3,213 sq. m., pop. 74,080. Sheep farming, slate quarries, distilleries. Inverary (870), Dunoon (5,283), Campbeltown (8,291), Oban (4,050).

Ayrshire: 1,128 sq. m., pop. 226,386. Maritime county, coal and iron mines, dairy-farming, cotton and woollen manufactures. Ayr (25,213), Kilmarnock (28,477), Ardrossan (5,294), Saltcoats (5,895), Irvine (9,016), Maybole (5,470).

Banffshire: 641 sq. m., pop. 61,684. Maritime county, pastoral. Banff (7,598), Buckie (5,849).

Berwickshire: 461 sq. m., pop. 32,290. Maritime county, sheep farming, fisheries, paper mills. Greenlaw (750).

Bute: 218 sq. m., pop. 18,404; includes the islands of Bute and Arran. Rothesay (9,108).

Caithness-shire: 685 sq. m., pop. 37,177. Maritime county, fishing, quarrying. Wick (8,512), Thurso (4,070).

Clackmannanshire: 48 sq. m., pop. 33,140. Coal mining, woollen manufactures. Alloa (12,643).

Cromarty, see Ross and Cromarty.

Dumbartonshire: 241 sq. m., pop. 98,014. Cotton bleaching and dyeing, shipbuilding. Dumbarton (17,626), Alexandria (11,639), Kirkintilloch (10,212), Helensburgh (8,409), Clydebank (10,589).

Dumfriesshire: 1,063 sq. m., pop. 74,245. Maritime county, sheep farming, woollen manufactures. Dumfries (17,821).

Edinburghshire (Mid-Lothian): 362 sq. m., pop. 434,276. Market gardens, dairy farms, paper mills, book printing, fishing, &c., Edinburgh, with Leith (333,268), Dalkeith (7,035), Portobello (8,684), Musselburgh (8,888).

Elginshire (Moray): 476 sq. m., pop. 43,471; agric., fishing. Elgin (7,894).

Fife: 492 sq. m., pop. 190,365; coal mines, linen manufacture, fishing. Cupar (4,980), Kirkcaldy (27,155), Dunfermline (19,647), St. Andrews (6,853).

Forfarshire (Angus): 875 sq. m., pop. 277,735; centre of jute and linen manufactures. Forfar (12,057), Dundee (153,587), Arbroath (22,821), Montrose (13,079), Brechin (8,955), Broughty Ferry (9,256).

Haddingtonshire (East Lothian): 271 sq. m., pop. 37,377; eminently agric., coal. Haddington (4,150).

Inverness-shire: 4,089 sq. m., pop. 90,121; traversed by the Caledon. Canal; almost given up to deer, sheep, and sportsmen. Inverness (20,855), the Highland capital.

For continuation of Scotch Counties see next map.

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NORTHERN
SCOTLAND
Scale 1:2000000
Statute Miles
0 10 20 30 40
Railways Canals
NORTH SEA
Smiths Bank
Dunnet Hd.
Stroma
Duncansby Hd.
John O'Groats
Freswick
Thurso
Keiss
Halkirk
Sinclairs B.
Noss Head
Wick
Pulteney town
CAITHNESS
Scarelet
Lybster
Latheron
Dunbeath
Morven
Berriedale
Ord of Caithness
Helmsdale
Lothbeg Pt.
Brora
Dunrobin Cas.
Golspie
Embo
Dornoch Firth
Tarbat Ness
Moray Firth
Nigg
The Bar
Findhorn
Burghead
Lossiemouth
Garmouth
R. Spey
Buckie
Cullen
Portsoy
Banff
Macduff
Troup Hd.
Aberdour B.
New Aberdour
Rosehearty
Kinnairds Hd.
Fraserburgh
Cairnbulg Pt.
Strathbeg B.
Rattray Hd.
St. Fergus
Elgin
Kinloss
Forres
Nairn
Culloden
Fochabers
New Pitsligo
Strichen
Turriff
New Deer
Peterhead
Buchan Ness
Keith
Huntly
Dufftown
Cruden B.
Ellon
Slains
Old Meldrum
Insch
ABERDEEN
Newburgh
Inverurie
Kintore
Alford
Tomintoul
Old Aberdeen
Aberdeen
Girdle Ness
Findon
Aboyne
Ballater
Charlestown
Banchory
Balmoral
Braemar
Lochnagar 3768
Stonehaven
Dunnottar Cas.
KINCARDINE
(Mearns)
Bervie
Laurencekirk
Johnshaven
Blair Athol
Killiecrankie
FORFAR
Montrose
Brechin
Kirriemuir
Forfar
Lunan B.
Glamis
Carnoustie
Arbroath
DUNDEE
Broughty Ferry
Firth of Tay
Bell Rock
Kenmore
Dunkeld
R. Tay
Almond
Kingussie
G. Philip & Son.

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SCOTLAND (Counties), *continued.*

Kincardineshire (Mearns): 383 sq. m., pop. 35,492; agric. and fishing, but mostly given up to sportsmen. Stonehaven (3,950).

Kinross-shire: 73 sq. m., pop. 6,673; coal, linen mfs. Kinross (1 970).

Kirkcudbrightshire (East Galloway): 898 sq. m., pop. 39,985; sheep farming, fishing, woollen manufactures. Kirkcudbright (2,600).

Lanarkshire (Clydesdale): 882 sq. m.; pop. 1,105,899. Famous manufacturing county; coal, iron, and lead mines, cotton and woollen manufactures, shipbuilding. Lanark (4,900), Wishaw (15,252), Hamilton (24,859), Motherwell (18,726), Coatbridge (30,034), Airdrie (19,133), Rutherglen (13,083), and Glasgow (658,198).

Linlithgowshire (West Lothian): 120 sq. m., pop. 52,808; coal and iron, various manufactures. Linlithgow (3,900), Bathgate (5,331), Borrowstounness (5,866), Grangemouth (6,354).

Nairnshire: 195 sq. m., pop. 9,155; agric., fishing. Nairn (4,670).

Orkney: 376 sq. m., pop. 30,453. Insular county; fishing, wool. knitting. Kirkwall (3,926).

Peebles-shire: 355 sq. m., pop. 14,750; sheep farming, woollen manufactures. Peebles (3,500).

Perthshire: 2,528 sq. m., pop. 122,185; agric., sheep farming, deer forests, textile manufactures. Perth (29,919), Crieff (4,500).

Renfrewshire: 245 sq. m., pop. 230,812; coal, iron, cotton manufactures, shipbuilding, sugar refining. Renfrew (6,777), Port Glasgow (14,684), Greenock (63,423), Pollockshaws (10,405), Paisley (66,425), Johnstone (9,668), Barrhead (8,215).

Ross and Cromarty: 3,078 sq. m., pop. 78,727; includes part of the Outer Hebrides. Sheep farming and cattle grazing. Tain (2,250), Dingwall (1,950), Stornoway in Lewis (3,386), Cromarty (1,350).

Roxburghshire: 665 sq. m., pop. 53,500. Woollen mfs. Hawick (19,204).

Selkirkshire: 257 sq. m., pop. 27,712. Pastoral, woollen manufactures. Selkirk (6,397), Galashiels (17,367).

Shetland: 551 sq. m., pop. 28,711. Insular county. Lerwick (5,930).

Stirlingshire: 447 sq. m., pop. 118,021. Coal, iron, woollen, and cotton manufactures. Stirling (16,781), Alva (5,225), Falkirk (19,769), Kilsyth (6,072).

Sutherland: 2,028 sq. m., pop. 21,896. Sheep walks, deer forests. Dornoch (490).

Wigtownshire (W. Galloway): 486 sq. m., pop. 36,062. Agric., sheep fishing. Wigtown (1,790), Stranraer (6,193).

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CENTRA

Scale; 1:1,000,000. *Railways thus* ——

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C OTLAND

Plate 16

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IRELAND.

Physical Features: More than three-fourths of the island are occupied by a plain, above which rise isolated groups of bare, picturesque hills, among which the Mourne Mts. (2,804 ft.), the Mts. of Wicklow (3,047 ft.), and the Mts. of Kerry (Macgillicuddy's Reeks, 3,422 ft.) are the more prominent. A rise of the sea of only 600 feet would break up Ireland into an archipelago of numerous islands.

The largest river is the Shannon; among the numerous lakes Lough Neagh (157 sq. m.) is the largest.

Climate: Milder and more damp than in England. Mean ann. temp., Dublin 50°, Valencia 51°; Jan. 42° and 45°, July 60° and 59°. Rainfall about 36 in. (Dublin 30 in., Cork 46 in.).

Area: 32,583 sq. m. (mainland 32,365 sq. m.).

Population: (1891) 4,704,750 (decrease in 10 years 9.1 p.c.); in towns of over 50,000 inh. 12.3 p.c.

Language: Gaelic is spoken by 680,174 persons (14.5 p.c.).

Religion: 3,547,307 Roman Catholics (75 p.c.).

Education: 2 Universities (Trinity College and Roman Cath. Un.), and 3 Queen's Colleges. The "Royal University" is merely a board of examiners. Av. attend. in Elem. Schools 496,000. 19 p.c. of the married are still unable to sign the Register.

Industries: Agriculture is the chief industry, and employs 44 p.c. of the working pop. Of the total area 19 p.c. is under tillage, 54 p.c. consists of perm. pasture; 1½ p.c. is wooded; 23 p.c. bog or barren mountain-land. The live stock (1894) included 554,818 horses, 4,392,663 cattle, 4,105,388 sheep, and 1,399,258 pigs. The *Fisheries* are of some importance (25,000 men, value £560,000). The *mining* produce includes coal, salt, and copper. The *linen manufacture*, together with minor textile industries (poplins, lace), occupies 72,000 hands.

Communications: Railways 2,991 m., canals 609 m.

Divisions: 4 Provinces, 32 Counties.

Leinster: 7,622 sq. m.; pop. 1,187,760. Dublin (321,209), Kingstown (17,322), Dundalk (12,449), Drogheda (11,873), Wexford (11,545), Kilkenny (11,048), Blackrock (8,401), Bray (6,888), Athlone (6,742), Carlow (6,619), New Ross (5,847), Enniscorthy (5,648), Mullingar (5,323) Clontarf (5,104), Tullamore (4,522).

Munster: 9,481 sq. m.; pop. 1,172,402. Cork (75,345), Limerick (37,155), Waterford (20,852), Tralee (9,318), Queenstown (9,082), Clonmel (8,480), Fermoy, (6,469), Tipperary (6,391), Carrick-on-Suir (5,608), Killarney (5,510), Ennis (5,460), Dungarvan (5,263), Youghal (4,317).

Connaught: 6,867 sq. m.; pop. 724,774. Galway (13,800), Sligo (10,274), Ballina (4,846).

Ulster: 8,613 sq. m.; pop. 1,619,814. Belfast (255,950), Londonderry (33,200), Newry (12,961), Lisburn (12,250), Lurgan (11,429), Newtownards (9,197), Carrickfergus (8,923), Ballymena (8,655), Portadown (8,430), Armagh (7,438), Coleraine (6,845), Enniskillen (5,670), Strabane (5,013), Banbridge (4,901).

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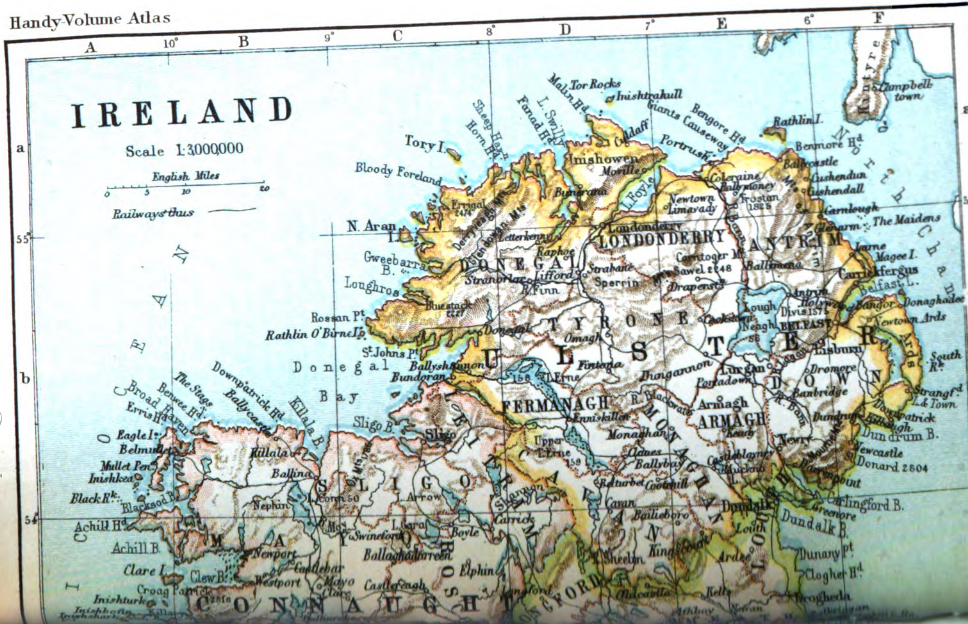

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GERMAN EMPIRE.

Physical Features: The German Empire extends from the North Sea and Baltic to the foot of the Alps. It includes a great lowland plain in the north, and diversified tablelands in the south. Of its five great rivers, four (Vistula, Oder, Elbe, Rhine) flow to the north, and only one (Danube) to the east.

Climate: Colder winters than with us, but hotter summers. Berlin, mean temp. 48° (Jan. 31°, July 66°); Munich, resp., 45°, 27°, and 63°. Average rainfall for all Germany, 26 in.

Area and Population: 208,814 sq. m., pop. (1890) 49,428,470; dec. incr. 9 p.c.; annual emigration, 103,000. *Languages:* German, 92 p.c.; Poles, 6 p.c.; other Slavs. 0.5 p.c.; French, 0.5 (260,000); Danes (163,000); Lithuanians (126,000), &c. *Religion:* 63 p.c. Prot., 36 p.c. R. Cath., 1 p.c. (567,884) Jews. *Education:* Universal and compulsory. Only 0.45 p.c. of the recruits unable to read (most illiterates in the Polish provinces); 21 universities, 2,440 prof., 27,500 students.

Industries: 44 p.c. of the pop. supported by agric., 37 p.c. by mining and industries. Of the total area 48 p.c. is cultivated, 20 p.c. grassland, 26 p.c. forest. Live-stock (1892): 3,817,939 horses, 17,496,696 cattle, 13,775,063 sheep, 12,056,804 pigs. An. production of beet sugar, 1,100,000 tons. *Mineral produce:* Annual value, £32,630,000; coal raised an., 69,600,000 tons; lignite, 18,954,000 tons; iron-ore, 11,014,000 tons; also zinc, lead, copper, silver, gold, rock-salt, &c. Manufactures of ever-increasing importance. Rhineland, Westphalia, and Lorraine are chief seats of the iron industries; Rhineland, Saxony, and Elsass of the textile industries.

Communications: Railways (1894), 29,820 miles; navigable rivers and canals, 7,730 miles. Com. marine (1894), 3,729 v. of 1,522,058 tons (equiv. to 1,056,820 steam tons), besides 18,800 river-boats (840 steamers) of 1,700,000 tons.

Commerce: Imports, £206,150,000; exports, £157,650,000. Of the imports, manufactures constitute 6 p.c.; of the exports, 67 p.c The staple exports are woollens, £11,135,000; sugar, £10,600,000 (729,330 tons); cottons, £7,635,000; iron-ware, £7,650,000; silks, £7,450,000. Chief trade with United Kingdom, 17 p.c.; Austria, 12 p.c.; United States, 11 p.c.; Russia, 9 p.c.; Holland, 7 p.c.; France, 6½ p.c.

Government: A Federal Empire with the King of Prussia as hereditary head or 'Deutscher Kaiser.' The legislative functions are exercised by the Bundesrat or 'Federal Council' (58 delegates of the federated governments) and a Reichstag (397 members elected by manhood suffrage). Revenue of the Empire (1894-5), £64,327,323; debt, £93,065,000; war chest, &c., £23,477,000. *Army:* 584,432 on peace-footing; 2,550,000 trained men, of 20-48, available in case of war. *Navy:* 212 ships (33 ironclads, 141 torpedo boats).

Colonies: Africa, 884,810 sq. m., pop. 8,370,000; New Guinea and Pacific, 97,080 sq. m., pop. 403,000.

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GERMANY: Federal States and Chief Towns.

Prussia, kingdom: 134,497 sq. m., pop. 29,957,367; 64 p.c. Prot. Net revenue, £53,261,350; debt (1895), £318,575,000. *Towns:* Berlin, 1,579,244; Breslau, 335,186; Cologne, 281,681; Magdeburg, 202,324; Frankfort on Main, 180,130; Hanover, 174,455; Königsberg, 161,666; Düsseldorf, 144,642; Altona, 143,249; Elberfeld, 125,809; Danzig, 120,338; Stettin, 116,228; Barmen, 116,144; Crefeld, 105,376; Aix-la-Chapelle (Aachen), 103,470; Halle, 101,452; and 11 others of over 50,000 inhabitants.

Bavaria, kingdom: 29,292 sq. m., pop. 5,594,982; 71 p.c. R.C. Net rev., £9,330,610; debt, £67,633,800. *Towns:* Munich, 350,594; Nürnberg; 142,590; Augsburg, 75,629; Würzburg, 61,039.

Saxony, kingdom: 5,789 sq. m., pop. 3,502,684; 96 p.c. Prot. Net rev., £5,034,200; debt, £34,826,070. *Towns:* Leipzig, 351,147; Dresden, 289,844; Chemnitz, 138,954.

Wurtemberg, kingdom: 7,530 sq. m., pop. 2,036,522; 69 p.c. Prot. Rev., £3,456,470; debt, £22,331,300. *Towns:* Stuttgart, 139,817; Ulm, 36,191.

Baden, grand-duchy: 5,823 sq. m., pop. 1,657,867; 62 p.c. R. C. *Towns:* Mannheim, 79,058; Carlsruhe, cap., 73,684; Frieburg, 48,909.

Hesse, grand-duchy: 2,966 sq. m., pop. 992,883; 67 p.c. Prot. *Towns:* Mainz (Mayence), 72,059; Darmstadt, cap., 56,399.

Mecklenburg-Schwerin, grand-duchy: 5,083 sq. m., pop. 578,342; 99 p.c. Prot. *Towns:* Rostock, 44,409; Schwerin, cap., 33,643.

Mecklenburg-Strelitz, grand-duchy: 1,208 sq. m., pop. 97,978; 99 p.c. Prot. *Capital*, New Strelitz, 9,481.

Oldenburg, grand-duchy: 2,480 sq. m., pop. 354,968; 77 p.c. Prot. *Capital*, Oldenburg, 23,118.

Brunswick, duchy: 1,418 sq. m., pop. 403,773; 95 p.c. Prot. *Capital*, Brunswick, 101,047.

Anhalt, duchy: 886 sq. m., pop. 271,963; 96 p.c. Prot. *Cap.*, Dessau, 34,658.

Waldeck, principality: 433 sq. m., pop. 57,281; 95 p.c. Prot. *Capital*, Arolsen, 2,620.

Schaumburg-Lippe, principality: 131 sq. m., pop. 39,163; 97 p.c. Prot. *Capital*, Bückeburg, 5,186.

Lippe, principality: 470 sq. m., pop. 128,495; 96 p.c. Prot. *Capital*, Detmold, 9,735.

Thuringian States:—**Saxe-Weimar**, grand-duchy: 1,388 sq. m., pop. 326,091; 96 p.c. Prot.; *Capital*, Weimar, 24,546. **Saxe-Meiningen**, duchy: 953 sq. m., pop. 223,812; 98 p.c. Prot.; *Capital*, Meiningen, 12,029. **Saxe-Altenburg**, duchy: 511 sq. m., pop. 170,864; 99 p.c. Prot.; *Capital*, Altenburg, 31,459. **Saxe-Coburg-Gotha**, duchy: 756 sq. m., pop. 206,513; 98 p.c. Prot.; *Capitals*, Coburg, 17,106; Gotha, 29 134. **Schwarzburg-Sondershausen**, principality: 333 sq. m., pop. 75,510; 99 p.c. Prot.; *Capital*, Sondershausen, 6,634. **Schwarzburg-Rudolstadt**, principality; 363 sq. m., pop. 85,863; 99 p.c. Prot.; *Capital*, Rudolstadt, 11,398. **Reuss, Elder line**, principality: 122 sq. m., pop. 62,754; 98 p.c. Prot.; *Capital*, Griez, 20,141. **Reuss, Junior line**, principality: 319 sq. m., pop. 119,811; 98 p.c. Prot.; *Capital*, Gera, 39,599.

Old Hanse Towns:—**Hamburg**: 160 sq. m., pop. 622,530, of whom 568,666 in the city; 92 p.c. Prot. **Bremen**: 99 sq. m., pop. 180,443, of whom 125,684 in the city of Bremen; 94 p.c. Prot. **Lubeck**: 115 sq. m., pop. 76,485, of whom 63,590 in the city; 97 p.c. Prot.

Elsass (Alsace) and Lorraine, "Reichsland," under a governor appointed by the Emperor: 5,601 sq. m., pop. 1,603,506; 76 p.c. R.C. *Towns:* Strassburg, 123,500; Mülhausen, 76,892; **Metz**, 60,186.

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A. Saxe-Altenburg. AN. Anhalt. Bk. Brunswick. C. Saxe-Coburg. M. Saxe-Meiningen. OL. Oldenbur

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CENTRAL GERMANY

Scale, 1:5000,000.

English Miles.

0 20 40 60 80

Prussia

PART OF THE RHINE

1: 2500,000

English Miles.

19A.

Schaumburg-Lippe. SCH. Schwarzburg. W. Saxe-Weimar.

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THE NETHERLANDS.

The kingdom of the Netherlands (also known as Holland, from its leading province) occupies a portion of the great Germanic Plain, and is protected against the sea by dunes and dikes. Mean elevation only 37 ft.; culminating point 787 ft.; 25 p.c. of the total area below mean sea-level.

Climate: Amsterdam, mean temp. 50° (Jan. 35°, July 66°), rain 28 in.

Area and Population: 12,740 sq. m., with (1894) 4,790,000 inh.; decen. incr. 12 p.c. *Religion*: 61 p.c. Protestant, 36 p.c. Roman Catholic, 98,000 Jews. *Education*: Of the conscripts (1891) 64 p.c. are still illiterate.

Industries: Of the total area 28 p.c. is cultivated, 34 p.c. consists of meadows and pastures, 7 p.c. is wooded. Fisheries (herrings and oysters) of importance; manufactures increasing; a little coal and iron.

Commerce: Im., £112,000,000; ex., £94,000,000. Of total trade, 33 p.c. with Germany, 25 p.c. with Un. Kingd., 14 p.c. with Belgium. Railways, 1,652 m.; canals, 1,907 m.; merc. mar., 597 ves., 296,100 tons (equiv. to 210,900 steam-tons).

Government: A constitutional monarchy. Revenue (1894), £10,688,000; debt, £90,977,680. Standing army, 21,400 men; navy, 133 v. (28 ironclads).

Towns: Amsterdam, 446,657; Rotterdam, 228,597; The Hague, 174,790; Utrecht, 91,070; Gröningen, 58,554; Haarlem, 56,803; Arnhem, 52,582; Leiden, 44,340.

Colonies: East Indies, 764,000 sq. m., pop. 32,667,000; West Indies, 50,282 sq. m., pop. 118,000.

BELGIUM.

Physical: The Northern portion lies within the great Germanic Plain, but beyond the Meuse the Ardennes rise to 2,200 ft.

Climate: Brussels, mean temp. 50° (Jan. 36°, July 65°), rain 29 in.

Area and Population: 11,370 sq. m., pop. (1891) 6,069,321; decen. incr. 10 p.c. *Languages*: 57 p.c. Flemish, 54 p.c. French, 2.2 p.c. German. *Religion*: Nearly all R.C. *Education* (1890): 27 p.c. of the adults unable to read.

Industries: 22 p.c. employed in agric., 41 p.c. cultivated, 26 p.c. grass and pastures; 17 p.c. forest. Mining of importance; (20 mill. tons coal, 741,740 tons pig-iron, besides zinc, silver). Varied manufactures of great importance.

Commerce: Imports, £133,440,000; exports, £248,960,000. Of the total trade 21 p.c. with France, 16 p.c. with Germany, 14 p.c. with the Un. Kingdom.

Communications: Railways, 2,813 miles; com. marine, 53 vess., 70,741 tons.

Government: A constitutional monarchy. Revenue, £13,973,000; debt (1894), £87,500,000. *Army*: Peace-footing, 51,000; war-footing, 139,000 men and 90,000 civic guards.

Towns: Brussels and suburbs, 502,650; Antwerp, 293,030; Liége, 158,892; Ghent, 153,808; Mechlin, 52,693; Verviers, 50,423; Bruges, 48,530.

Colonies: The Congo State (since 1885), 905,090 sq. m., pop. 16,300,000.

LUXEMBURG.

A Grand-Duchy, 999 sq. m., pop. 210,000. Up till 1866 a member of the German Confederation, and still included in the Zollverin.

DENMARK.

Physical: Denmark consists of the peninsula of Jutland, an archipelago of islands at the gate of the Baltic, Bornholm, and the Faröes. Its highest point is only 565 ft. above the sea-level.

Climate: Copenhagen, mean temp. 45° (Jan. 31°, July 62°), rainfall 22 in.

Area and Population: 15,205 sq. m., pop. 2,294,000; decen. incr. 10 p.c. *Religion*: nearly all Protestants.

Industries: 41 p.c. engaged in agriculture, 24 p.c. in industries.

Commerce: Im., £18,310,000; ex. (butter, cattle, corn), £13,927,000. Principal trade with Un. Kingdom, 35 p.c., and Germany 30 p.c. Railways, 1,382 m.; com. marine (1894), 3,675 vessels, 330,921 tons (equiv. to 78,842 steam-tons).

Government: A constitutional monarchy. Revenue, £3,110,000; debt (1893), £10,197,000. *Army*: Peace-footing, 13,930 men; war-footing, 63,000 men. *Navy*: 98 vessels (10 ironclads).

Towns: Copenhagen, 375,719; Aarhuus, 33,306; Odense, 30,268.

Dependencies: Iceland, 40,458 sq. m., pop. 70,000; Greenland, 838,000 sq. m., pop. 12,000; Antilles, 139 sq. m., pop. 33,000.

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SWITZERLAND.

Physical: Switzerland is essentially a country of lakes and mountains, of luxuriant pastures and desolate fields of snow and ice. Its altitudes vary from 663 ft. (Lago Maggiore) to 15,217 ft. (Monte Rosa), whilst its most populous section, the plateau stretching between Jura and the Alps, from the Lake of Geneva to that of Constanz, has an average elevation of little more than 1,300 feet. The most frequented passes leading into Italy are the Gt. St. Bernard, 8,110 ft.; Simplon, 6,600 ft.; St. Gotthard, 6,890 ft.; Splügen, 6,946 ft.; and Maloja, 5,940 ft.

Climate and Vegetation vary according to elevation; and whilst olives and evergreens flourish on the Italian slopes, deciduous forest trees, vines, and cornfields scarcely extend above 2,600 ft. Zürich, mean temp. 49°, Jan. 30°, July 66°; rain 47 in.

Area and Population: 15,964 sq. m., pop. (1888) 2,917,754; dec. incr. 3.8 p. c.; emigrants an. 7,970. German is spoken by 71.4 p. c., French by 21.8 p. c., Italian (in Ticino) by 5.3 p. c., and Romaic (in the Grisons) by 1.3 p. c.

Religion: Protestant, 58.8 p. c., R. Catholics 40.6 p. c., Jews 8,069.

Education: Most advanced in Protestant cantons. In 1892 only 0.85 p. c. of the conscripts were unable to read. There are 5 universities (2,700 students), and a famed Polytechnic School at Zürich.

Industries: 53 p. c. of the pop. is supported by industries, 41 p. c, by agriculture. Of the total area only 13 p. c. is under crops, 13 p. c. bears fruit-trees, 25 p. c. is meadows, 20 p. c. forests, and 28 p. c. is absolutely unproductive. The live stock (1886) included 1,211,713 cattle. The *Mines* yield salt, coal, iron, asphalt, but are of no importance. *Manufactures* varied—textiles, watches, and machinery being most important.

Communications: Railways, 2,122 miles (St. Gothard Tunnel, 9 miles).

Commerce: Imports, £33,960,160; exports, £26,082,000. Manufactures (silks, cotton goods, watches, cheese) constitute 79 p. c. of the exports, 26 p. c. of the imports; articles of food, 9 p. c. of the former, 26 p. c. of the latter. Of the entire trade 26 p. c. is with Germany, 15 p. c. with France, 12 p. c. with Italy, 10 p. c. with the Un. Kingdom, and 8 p. c. with the Un. States.

Government: A federal republic of 25 cantons, whose neutrality was guaranteed in 1815. The acts of the Federal Assembly are subject to repeal by a vote of all citizens (Referendum). Federal revenue: £2,996,300; debt (1893), £2,565,130; cantonal revenues, £3,166,000; debts, £10,280,000. *Militia*: 134,932 field-troops (Auszug), 80,298 Landwehr, and 273,296 Landsturm (not organised).

Towns (1894): Zürich, 119,706; Geneva, 79,444; Basel, 77,686; Bern, federal cap., 47,974; Lausanne, 36,121; St. Gallen, 31,706; La Chaux de Fonds, 30,245; Luzern, 22,100; Biel (Bienne), 17,857; Neuchâtel, 17,849; Winterthur, 17,413.

LIECHTENSTEIN.

Principality between Tyrol and Switzerland, 61 sq. m., pop. 9,300.

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SWEDEN.

Physical: Sweden occupies the E. half of the Peninsula of Scandinavia. It is in the main a level country, rising into mountains only along the Norwegian boundary (Kebnekaisse, 6,890 ft.). Lakes and rivers abound. 44 p.c. of the area is still wooded. *Climate:* Stockholm, mean temp. 45° (Jan. 25°, July 62°); rainfall 16 in.

Area and Population: 173,970 sq. m., pop. (1893), 4,824,150, nearly all Lutherans, and, with the exception of about 6,850 Lapps, 21,750 Finns and 24,550 foreigners, Swedes. Decen. incr. 5 p.c. An. emigration, 42,300. *Education* compulsory, and only 1 p.c. of recruits unable to read.

Industries: Only 8 p.c. cultivated, 4 p.c. grassland, 44 p.c. forest. *Mining* of importance (iron-ore, 1 mill. tons; coal, 192,000 tons; zinc, copper, lead, &c.), also fisheries.

Communications: Railways, 5,456 miles; com. marine (1893), 4,136 vessels, 548,711 tons (equiv. to 297,442 steam-tons).

Commerce: Imports, £20,278,000; exports, £18,133,000 (timber 33 p.c.). Chief trade with Un. Kingd., 36 p.c., and Germany 23 p.c.

Government: A Constitutional Monarchy, the King of S. being also King of Norway. Revenue, £5,391,000: Debt, £15,482,000. *Army:* "Active," 3,880 men; reserve, 234,000. *Navy:* 68 vessels (16 ironclads).

Towns: Stockholm, 257,037; Göteborg (Gothenburg), 108,801; Malmö, 50,970.

NORWAY.

Physical: Norway occupies the Western half of the peninsula of Scandinavia. It is a mountain-region (mean elevation, 1,380 feet), rising in Lötunfield to 8,060 ft.; glaciers cover 2,700 sq. m. Numerous fiords indent the coast.

Climate along West coast comparatively mild. Kristiania, mean temp. 41° (Jan. 23°, July 57°); rainfall 23 in. (on W. coast up to 72 in.).

Area and Population: 124,445 sq. m., pop. (1891) 1,988,674, incl. 17,012 Lapps and 7,429 Finns. Decen. incr. 6 p.c.; an. emigr. 14,560.

Industries: Of the total area only 3 p.c. is cultivated, 22 p.c. wooded. Fisheries (cod, herrings) important; an. yield £1,333,000. Mines yield £222,000 (silver, copper, nickel).

Communications: Railways, 1,001 miles. Com. marine (1893), 7,506 vessels, 1,744,993 tons (equiv. to 749,324 steam-tons).

Commerce: Imports, £11,238,000; exports (animal produce, timber, &c.), £7,295,000. Chief trade with Un. Kingdom, 30 p.c.; Germany, 21 p.c.; Sweden, 14 p.c.

Government: A Constitutional Monarchy, the King of Sweden being also King of Norway. *Army:* "Active," 19,700; reserve, 20,000. *Navy:* 52 vessels (4 monitors).

Towns: Kristiania, 148,213; Bergen, 52,803; Trondhjem, 28,792.

FINLAND.

Physical: Is a lake plateau of moderate elevation, and lakes cover 11 p.c. of its area.

Area and Population: 144,251 sq. m., pop. 2,506,000, of whom 86 p.c. Finns, 13 p.c. Swedes, and 98 p.c. Lutherans. Decen. inc. 15 p.c.

Industries: Agriculture and forestry support 80 p.c. of the population, 3 p.c. is cultivated, 10 p.c. grassland, 56 p.c. forest. Iron mining of some importance.

Commerce: Imports, £5,438,000; exports, £4,170,000. Chief trade with Russia, 38 p.c.; Germany, 19 p.c.; Un. Kingd., 16 p.c.

Railways (1894), 1,304 miles; com. marine, 2,097 vessels, 251,382 tons (equiv. to 100,956 steam-tons).

Government: Under the Emperor of Russia as Grand Duke, the ancient Constitution has been preserved in its essential features. *Rev.*, £1,791,000; *Debt* (1894), £2,970,000. *Army:* 6,256 men.

Towns: Helsingfors, 66,734; Abo, 32,184.

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AUSTRIA–HUNGARY.

Two states politically united under the same dynasty. Commer. affairs are settled by delegations from the two Parliaments. The Customs Union (since 1878) includes also Bosnia.

Total area (incl. Bosnia) 261,267 sq. m., pop. (estim. for 1895) 96,073,000, incl. 10,975,000 Germans and 8,340,000 Magyars.

Finance: Common revenue (1895), £15,205,820, chiefly from Customs, of which Austria contributes 70 p.c., Hungary 30 p.c. Common debt, £44,199,370.

Defence: *Army*—353,252 on peace-footing, 1,872,170 in war. *Navy*—133 ships (13 ironclads, 77 torpedo-boats).

Commerce: Imports, £64,290,800; exports, £77,012,700. Manufac. goods constitute 27 p.c. of the imports, 26 p.c. of the exports. Staple exports, sugar (£8,500,000), corn (£7,600,000), timber (£5,900,000). Chief trade with Germany, 47 p.c.; United Kingdom, 8 p.c.; Italy, 7 p.c.

AUSTRIA.

Austria includes the provinces of the defunct German Confederations, Galicia and Dalmatia. The Danube drains the centre, the Elbe the basin of Bohemia, the Adige and other rivers the S. slopes of the Alps (in these Ortler rises 12,810 feet).

Climate: Vienna, mean temp. 49° (Jan. 29°, July 69°), rain 23 in.

Area and Population: 115,922 sq. m., pop. (1890), 23,895,413; decen. incr. 8.7 p.c. *Nationalities*: Germans, 37 p.c.; Slavs, 61 p.c.; Italians, 3 p.c. *Religions*: R. Catholics, 91 p.c.; Jews, 4.8 p.c.; Greek Catholics, 2.4 p.c.; Protestants, 1.8 p.c. *Education*: 59 p.c. of total pop. able to read; 7 universities (1,150 prof., 13,380 students).

Industries: Agriculture supports 54 p.c. of pop. Cultivated area, 37 p.c.; grass, 24 p.c.; forest, 33 p.c. Live stock (1890), 1,548,197 horses, 8,643,936 cattle, 3,186,787 sheep, 3,549,700 pigs. *Mining Production*: Coal, 25,000,000 tons; iron-ore, 1,195,000 tons; gold, silver, salt, &c. An. value, £9,293,000. Manufacturing industry varied (textiles, glass, fancy articles).

Communications: Railways, 10,499 m.; navigable rivers and canals, 4,090 m.

Government: Limited monarchy. Net revenue (1894), £44,936,000; debt (1894), £399,608,000 (of which about £69,000,000 debited to Hungary).

Chief Towns: Vienna, 1,364,548; Prague, 310,483; Trieste, 145,073; Lemberg, 127,943; Graz, 112,069; Brünn, 94,462; Cracow, 94,696; Czernowitz, 54,171; Pilsen, 50,221.

HUNGARY.

The Kingdom of Hungary includes the plain of the Danube, the interior slopes of the Carpathians, the mountain-country of Transylvania, and the kingdom of the Croatia and Slavonia (with a local diet), and the free port of Fiume.

Climate: Mean temp. of Budapest, 51° (Jan. 29°, July 72°), rain 23 in.

Area and Population: 126,611 sq. m., pop. (1890) 17,463,791; decen. incr. 11.6 p.c. *Nationalities*: Magyars, 43 p.c.; Slavs, 29 p.c.; Germans, 11 p.c.; Romanians, 15 p.c. *Religion*: R. Catholics, 59.6 p.c.; Orth. Greek Church, 15.6 p.c.; Prot., 20.5 p.c.; Jews, 4.3 p.c. *Education*: Only 45 p.c. of total pop. able to read; 3 universities (296 prof., 4,500 students).

Industries: Agriculture supports 61 p.c. of pop.; 42 p.c. cultivated, 24 p.c. pasture, 28 p.c. forest. Live stock (1890), 1,965,971 horses, 5,591,843 cattle, 11,183,469 sheep, 5,271,692 pigs. *Mining products* incl. coal, iron, silver, &c.; an. value, £2,448,000.

Government: Limited monarchy. Revenue (1894) £46,530,400; debt (1894), £222,874,000 (besides liability of about £84,000,000 in Austrian and common debts). Assets (railways, &c.) £222,870,000.

Chief Towns: Budapest, 491,938; Szegedin, 85,569; Maria-Theresiopol, 72,737; Debreczin, 56,940; Holdmezö-Vásárhely, 55,475; Pressburg, 52,411.

BOSNIA AND HERZEGOVINA.

Nominally a province of Turkey, since 1878 occupied and administered by Austria. *Area*: 19,734 sq. m., pop. (1895) 1,650,000, nearly all Servs. *Religion*: Greek Cath., 43 p.c.; R.C., 20 p.c.; Moham., 37 p.c.; Jews, 6,000. Forests cover 45 p.c. of the area. Commerce incl. in that of Austria-Hungary. Railways, 499 miles. Local army, 5,000 m. **Towns**: Saraiyevo (1893), 26,268; Banyaluka, 11,357.

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FRANCE.

Physical Features: France stretches from the Atlantic to the Mediterranean, is bounded by the Pyrenees in the S. (11,000 ft.), by the Alps (Mont Blanc, 15,,80 ft.), the Jura and the Vosges in the E., and by a conventional line in the N.E. and N. On a central plateau Mont du Cantal rises 6,090 ft. The great rivers are the Seine, Loire, Garonne, and Rhône. *Climate*—Paris, mean temp. 51°, Jan. 36°, July 65°, rain 22 in.; Montpellier, mean temp. 58°, Jan. 42°, July 76°, rain 30 in.

Area and Population: 207,112 sq. m., pop. (1891), 38,133,385; dec. incr 1.8 p.c.; emigrants, an. 17,400. According to *language* there were (1891), in addition to 1,300,915 persons born abroad, 1,230,000 Celtic-speaking Bretons, 300,000 Italians in Corsica and Nice; 165,000 Flemings in the N.W., and 116,000 Basques in the S.W.

Religion: In 1891, 78.5 declared themselves to be Rom. Catholics, 1.8 p.c. Protestants, and 0.1 p.c. (53,436) Jews; 19.6 p.c. declined to make any declaration.

Education: Public education is almost entirely in the hands of the government. There are 54 "faculties" or colleges for professional training. Numerous technical schools. Much progress in popular education has been made since 1871, but 8.7 p.c. of the conscripts were still unable to read in 1890.

Industries: Of the total pop. 48 p.c. are supported by agriculture, 25 p.c. by industries and mining. *Agriculture*—54 p.c. cultivated, 11 p.c. grass and pastures, 19 p.c. woods; 5,672,000 holdings, those of over 100 acres including 45 p.c. of the total area. Agricultural products include the sugar-beet and tobacco, the olive and mulberry (for rearing silk-worms), and wine (an. 603 mill. gall.). *Live stock* (1892)—13,364,434 cattle, 21,504,956 sheep, 6,337,100 pigs, and 1,528,560 goats. *Mining*—coal 25 mill. tons, pig-iron 1,867,000 tons, salt 801,058 tons, besides zinc, lead, and copper. The *Fisheries* (cod, herrings, sardines) employ (1890) 25,045 boats and 146,631 persons. *Manufactures*—varied; cotton and linen at Lille, woollens at Roubaix, silks at Lyon, hardware at St. Etienne and Creuzot.

Communications: Navigable rivers 5,516 m.; canals, 2,488 m.; railways, (1894), 24,592 m. Commercial marine, 15,278 v., 905,606 t. (eq. to 534,243 steam tons).

Commerce: Imports, £171,900,000; exports, £136,540,000. Manufac. goods form 14.6 p.c. of the imports, 55.8 p.c. of the exports; articles of food resp. 24.2 and 22.5 p.c. Of the entire trade 20 p.c. is with the United Kingdom, 12 p.c. with Belgium, 9 p.c. each with Germany and the United States, and 8 p.c. with French colonies.

Government: Republican since 1870; the legislature vested in a "National Assembly," including a Senate and a House of Deputies, by whom the President is elected for 7 years. Revenue, £133 mill.; debt (1893), £1,224,467,000; an. charge (1894), £51,380,400. *Army*: on a peace footing, 520,000 men; on a war footing, 19 army corps (754,600 men, 2,802 guns), reserves and depôts (731,600 men, 684 guns), and total available strength 4,350,000 men! *Navy*: 517 vessels (58 ironclads, 299 torpedo boats) manned by 44,000 men.

Towns (1891): Paris, 2,447,957; Lyons, 416,029; Marseilles, 403,749; Bordeaux, 257,415; Lille, 201,211; Toulouse, 149,791; St. Etienne, 133,443; Nantes, 122,750; Le Havre, 116,369; Roubaix, 114,917; Rouen, 112,352; Reims, 104,186; Nice, 38,273; Nancy, 87,110; Amiens, 83,657; Toulon, 77,747; and Brest, 75,854, besides 17 others of over 50,000 inhabitants.

Colonies: including 'Protectorates' these cover an area of 3,711,394 sq. m., with an estim. pop. of 53,569,740—viz., Africa, 3,426,790 sq. m., pop. 32,815,000; Asia, 241,426 sq. m., pop. 20,283,000; America, 31,622 sq. m., pop. 377,340; Pacific and Southern Ocean, 11,556 sq. m., pop. 94,400.

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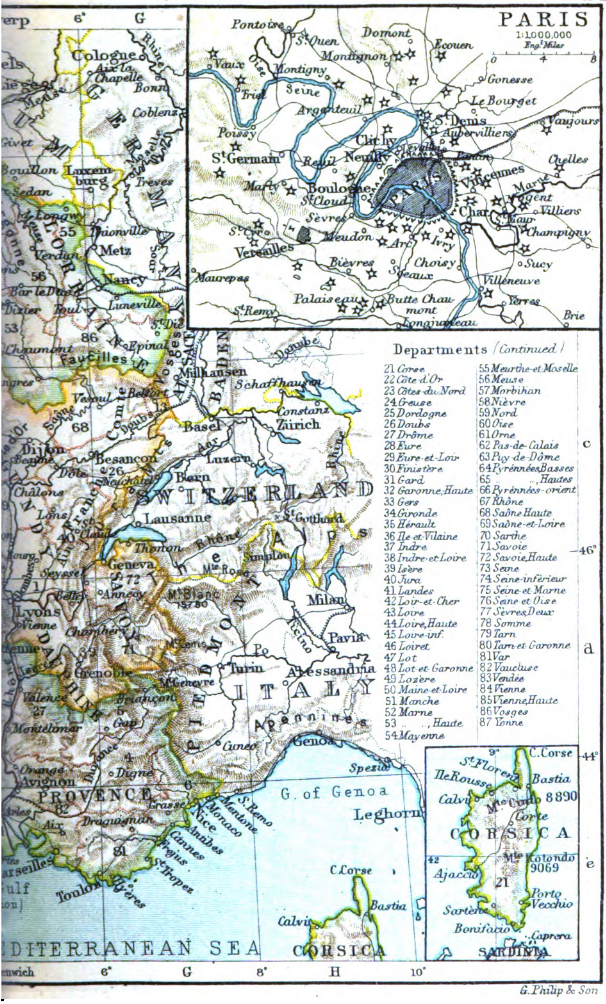
Plate 24


PARIS
1:1,000,000
Engl. Miles
0 4 8
Pontoise
St. Ouen
Domont
Ecouen
Montmorency
Vaux
Oise
Montigny
Seine
Triel
Argenteuil
Gonesse
Le Bourget
St. Denis
Aubervilliers
Vaujours
Poissy
Clichy
St. Germain
Reuil
Neuilly
Chelles
Vincennes
Marly
Boulogne
PARIS
Marne
Nogent
St. Cloud
Villiers
Charenton
St. Maur
Sèvres
Champigny
St. Cyr
Meudon
Versailles
Ivry
Maurepas
Bièvres
Choisy
Sceaux
Sucy
Villeneuve
Palaiseau
Butte Chaumont
St. Remy
Yerres
Brie
Longjumeau
Departments (Continued)
21 Corse
22 Côte d'Or
23 Côtes-du-Nord
24 Creuse
25 Dordogne
26 Doubs
27 Drôme
28 Eure
29 Eure-et-Loir
30 Finistère
31 Gard
32 Garonne, Haute
33 Gers
34 Gironde
35 Hérault
36 Ile-et-Vilaine
37 Indre
38 Indre-et-Loire
39 Isère
40 Jura
41 Landes
42 Loir-et-Cher
43 Loire
44 Loire, Haute
45 Loire-inf.
46 Loiret
47 Lot
48 Lot-et-Garonne
49 Lozère
50 Maine-et-Loire
51 Manche
52 Marne
53 „ , Haute
54 Mayenne
55 Meurthe-et-Moselle
56 Meuse
57 Morbihan
58 Nièvre
59 Nord
60 Oise
61 Orne
62 Pas-de-Calais
63 Puy-de-Dôme
64 Pyrénées, Basses
65 „ „ , Hautes
66 Pyrénées-orient.
67 Rhône
68 Saône, Haute
69 Saône-et-Loire
70 Sarthe
71 Savoie
72 Savoie, Haute
73 Seine
74 Seine-inférieur
75 Seine-et-Marne
76 Seine-et-Oise
77 Sèvres, Deux
78 Somme
79 Tarn
80 Tarn-et-Garonne
81 Var
82 Vaucluse
83 Vendée
84 Vienne
85 Vienne, Haute
86 Vosges
87 Yonne
6° G
Cologne
Aix la Chapelle
Bonn
Rhine
Coblenz
Moselle
GERMANY
Luxemburg
Treves
Sedan
Longwy
Thionville
Metz
Verdun
LORRAINE
Nancy
Luneville
Bar le Duc
Toul
St. Dié
Epinal
Chaumont
Faucilles
Vosges
ALSACE
Mülhausen
BADEN
Danube
Schaffhausen
Constanz
Vesoul
Belfort
Basel
Zürich
Dijon
Beaune
Besançon
Dôle
Comté
Doubs
Luzern
Bern
Neuchâtel
SWITZERLAND
Châlons
Lons
St. Claude
Lausanne
St. Gotthard
Thonon
Rhône
Simplon
Alps
Geneva
Mte. Rosa
Annecy
Mt. Blanc
15780
SAVOY
Lyons
Vienne
Chambery
Milan
Ticino
Pavia
Po
Turin
Alessandria
ITALY
DAUPHINE
Grenoble
Mt. Genèvre
Briançon
Valence
PIEDMONT
Apennines
Gap
Montélimar
Cuneo
Genoa
Durance
Digne
Orange
Avignon
Spezia
PROVENCE
G. of Genoa
Leghorn
Arles
Aix
Draguignan
Grasse
Nice
Monaco
Mentone
S. Remo
Antibes
Cannes
Fréjus
St. Tropez
Marseilles
Toulon
Hyères
C. Corse
Bastia
Calvi
CORSICA
MEDITERRANEAN SEA
6° G 8° H 10°
9°
C. Corse
St. Florent
Ile Rousse
Bastia
Calvi
Mte. Cinto 8890
Corte
CORSICA
42
Mte. Rotondo 9069
Ajaccio
21
Porto Vecchio
Sartène
Bonifacio
Caprera
SARDINIA
46°
44°
c
d
e
G. Philip & Son

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IBERIAN PENINSULA.

The Iberian Peninsula is separated from the rest of Europe by the Pyrenees. It presents itself as a tableland, largely occupied by treeless steppes, buttressed and intersected by mountain-ranges. Culminating point, Mulahacen, in the Sierra Nevada, 11,420 ft. The only considerable lowlands are those of the Ebro, Andalucia, and the Lower Tejo, in Portugal. The only navigable rivers are Douro, Tejo, and Guadiana, in Portugal—the Guadalquivir, in Spain.

Climate: Wet in the W. and N.W., dry in the interior, more genial on the borders of the Mediterranean. Madrid (2,150 ft.), mean temp. 56° (Jan. 41°, July 76°), rain 15 in.; Lisbon, mean temp. 60° (Jan. 51°, July 71°), rain 30 in.

SPAIN.

Area and Population: 191,991 sq. m., pop. (1887) 16,945,785, (1895, est.) 17,700,000; decen. incr. 5.5 p.c. An. emigration 75,800. *Language*: Castilian. In the N., still 440,000 Basks; in the Sierra Nevada, 50,000 Moriscoes (descend. of the Moors), and 50,000 Gipsies. *Religion*: All R.C., except 17,210 (6,654 Prot., 402 Jews, 9,045 Free-thinkers). *Education*: Very backward; in 1885 68 p.c. of total pop. unable to read; 10 universities, with 16,000 students.

Industries: 34 p.c. cultivated, 5 p.c. vineyards and olive-groves, 20 p.c. grass, 21 p.c. wooded. *Mining* employs 56,000 hands; an yield £4,924,000, esp. lead, copper, iron, mercury. Barcelona chief seat of manufacturing industry (machinery, textiles).

Communications: Railways, 6,713 miles; com. marine (1893), 1707 v., 652,139 tons (equiv. to 521,039 steam-tons).

Commerce: Imports, £37,473,000; exports (wine, lead and other ores), £35,044,000. Chief trade with France, 37 p.c., and Un. Kingdom, 22 p.c.

Government: Limited monarchy. Revenue (1893-4), £29,472,800; debt (1893), £85,455,800. *Army*: Peace, 80,144 men; war, 176,000 men. *Navy*: 117 ships (10 ironclads).

Chief Towns (1887): Madrid, 470,283; Barcelona, 272,481; Valencia, 170,763; Seville, 143,182; Malaga, 134,016; Murcia, 98,538; Zaragoza, 92,407; Cartagena, 84,230; Granada, 73,000; Cadiz, 62,531; Valladolid, 62,012.

Colonies and Dependencies: 318,680 sq. m., pop. 9,919,000, incl. the "Presidios" (Ceuta, &c.) in Africa, the Canaries, the Philippines, Cuba, and Puerto Rico, &c.

ANDORRA.

A Republic of 6 parishes in the Pyrenees, under the suzerainty of France and the Bishop of Urgeb. Area 175 sq. m., pop. 6,000.

PORTUGAL.

Area and Population: 35,507 sq. m., pop. (1890) 4,301,989, or, incl. of Madeira and the Azores, 36,744 sq. m., pop. 4,692,123; decen. decrease 0.3 p.c. An. emigration, 22,720. *Religion*: R.C., except 500 Prot. *Education*: Bulk of pop. still illiterate.

Industries: 25 p.c. cultivated, 27 p.c. pastures, 3 p.c. forest. The mines yield iron, copper, zinc, and a little coal.

Communications: Railways, 1,420 miles; com. marine (1891), 553 v., 74,358 tons (equiv. to 50,377 steam-tons).

Commerce: Imports, £8,150,000; exports, £5,127,000. Chief trade with the Un. Kingdom, 33 p.c.; Germany and France, 12 p.c. each. Staple exports, wine and cork.

Government: Limited monarchy. Revenue, £4,827,000; debt, £150,346,000. *Army*: Peace, 34,170; war, 150,000. *Navy*: 72 ships (2 ironclads).

Towns: Lisbon, 242,297; Oporto, 105,838.

Colonies: 826,730 sq. m., pop. 5,472,000, in Africa; 7,715 sq. m., pop. 927,000, in Asia.

GIBRALTAR.

British Fortress at the entrance of the Mediterranean, 2 sq. m., pop. (1891) 26,050, incl. a garrison of 5,305.

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ITALY.

Physical: The Kingdom of Italy includes an extended peninsula in the centre of the Mediterranean, encircled in the north by the Alps, and traversed along the whole of its length by the Apennines (Gran Sasso, 9,580 ft.), together with the islands of Sicily and Sardinia. The Southern Tyrol, Ticino, Istria, Corsica, and other districts mainly inhabited by Italians, are known to patriots as "Italia Irridenta." The great rivers are the Po (which drains a vast plain and the lakes at the south foot of the Alps), the Arno, and the Tiber.

The *Climate* is genial, being most extreme in the north (Milan, mean temp. 54°, Jan. 33°, July 74°, rain 36 in.), most equable along the Riviera and in the South (Palermo, mean temp. 64°, Jan. 52°, July 78°, rain 24 in.). At Rome the mean temp. is 59° (Jan. 44°, July 76°), and the rainfall 31 in.

Area and Population: 110,655 sq. m., pop. (1894) 30,725,000: dec. incr. 7¼ p.c.; emigrants, an. 239,660, of whom 101,660 to other parts of Europe. *Italian* is the mother tongue of all, with exception of 140,000 French in the Alps of Piedmont; 50,000 Albanians, 20,000 Greeks, and 7,000 Catalonians, in the south.

Religion: 62,000 Protestants, 38,000 Jews, the rest Roman Catholics.

Education: 21 Universities, with 17,518 students, but 50 p.c. of the adults unable to read (in 1861, 73 p.c.).

Industries: Of the total population 53 p.c. is supported by *Agriculture*, 26 p.c. by industries; 37 p.c. of the total area is arable, 6 p.c. vineyards, 3 p.c. olive groves, 25 p.c. meadows and pastures, 16 p.c. woods. Raw silk, olive oil, and wine are leading products. The *Fisheries* employ 20,500 boats and 65,000 men, and yield sponges and coral in addition to fish. The *Mines* yield sulphur (394,448 tons), zinc, lead, quicksilver, coal (27,774 tons), iron, silver, &c., of a total annual value of £2,907,000. The *Manufactures* (textiles, machinery, glass) are increasing.

Communications: 8,700 miles of railway; (1893) 6,668 vessels, of 796,461 tons (eq. to 404,282 steam tons).

Commerce: Imports (incl. silver), £48,261,700; exports, £36,412,300; manuf. goods constitute 24 p.c. of the imports, and only 15 p.c. of the exports; articles of food resp. 25 and 29 p.c.; silk, olive oil, and wines are the leading articles of export. Of the entire trade 18 p.c. is with France, 17 p.c. with the United Kingdom, 12 p.c. with Germany, 11 p.c. with Austria, 9 p.c. with Switzerland.

Government: Constitutional Monarchy. Legislative: the King, a Senate, and a popularly elected Chamber of Deputies. Revenue, £67,199,000; Debt (1893), £471 mill. *Army*: 282,380 men on a peace footing, 1,494,000 trained men available in case of war. *Navy*: 305 vessels (35 ironclads, 192 torpedo-boats), manned by 22,600 men.

Towns: Naples, 522,700; Rome, the capital, 451,000; Milan, 432,400; Turin, 335,000; Palermo, 276,000; Genoa, 215,300; Florence, 200,300; Venice, 150,900; Messina, 146,400; Bologna, 142,400; Catania, 121,000; and Leghorn, 103,600.

Colonies: Eritrea, Somali-Land, and Abyssinia (Protectorate); 54,880 sq. m., pop. 5,150,000.

SAN MARINO.

A miniature Republic of 28 sq. m., pop. 8,200; exists since the 11th century, and placed itself (1862) under the Protectorate of the King of Italy.

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SARDINIA
TYRRHENIAN OR TUSCAN SEA
APULIA
BASILICATA
CALABRIA
SICILY
IONIAN SEA
MEDITERRANEAN SEA
Gulf of Taranto
ROME AND THE CAMPAGNA
P.Torres
Sassari
Alghero
Terranova
Oristano
Iglesias
Carloforte
S.Antioco
Cagliari
C.Carbonara
C.Spartivento
Ischia I.
B.of Naples
Capri I.
Amalfi
Salerno
Agropoli
Policastro
Polino 7380
Metaponto
Gallipoli
Otranto
Lecce
Brindisi
Monopoli
Taranto
C.di Leuca
Cosenza
Sila 6330
Cotrone
C.di Nao
S.Eufemia
Catanzaro
Squillace
Ustica I.
Lipari Is.
Stromboli I. 3090
Salina
Lipari
Vulcano
Milazzo
Scilla
Aspromonte 6420
Reggio
C.Spartimento
Str. of Messina
Castellamare
Trapani
Palermo
Termini
Messina
Marsala
Mazzara
Le Madonie 6480
Etna 10,870
Catania
Caltanisetta
Girgenti
Caltagirone
Licata
Terranova
Ragusa
Siracusa
Nota
Modica
C.Passaro
Pantellaria I. (Italian)
Gozo I.
Comino I.
MALTA (Brit.)
La Valetta
Monte Rotondo
Palombara
Monticelli
Tivoli
Solfatara
Via Tiburtina
R. Teverone (Anio)
Via Labicana
ROME
Citta Leonina
Mte. Mario
Via Appia
Frascati
Grotta Ferrata
Tusculum
Hills of Albano
M.Cavo 3140
Palazzuola
Castel Gandolfo
Albano
Ariccia
Genzano
Nemi
Velletri 1310
Fiumicino
Ostia
Porcigliano
Laurentum
Maccarese
Magliana
12° East of Greenwich
G. Philip & Son.

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BALKAN PENINSULA.

The most easterly peninsula of Mediterranean Europe, a land of mountains, named after a range which separates the waters of the Ægean from the basin of the Danube. The highest summits are the Shar Dagh, in the western backbone of the peninsula (10,010 ft.), and the Mus Alla, in the Rhodope (9,570 ft.). The principal rivers are the Danube, the Maritza, and the Vardar.

Climate: North of the Balkans, cold winters; on the coasts of the Ægean it snows only rarely. Constantinople, mean temp. 61° (Jan. 42°, July 74°), rain 29 in. For Bucharest these figures are 51°, 27°, 73°, and 29 in.

Soil fertile, but agriculture in a backward state; wheat, maize, tobacco, flax, and hemp are generally grown, and in the S. also cotton, rice, olives, wine, figs, and even dates. Industry in its infancy.

EUROPEAN TURKEY.

The immediate possessions of Turkey in Europe have been much curtailed by the Treaty of Berlin (1878), and now cover only 67,910 sq. m., with an estim. pop. of 5,750,000. There are 2,360,000 Mohammedans, and, according to nationality, 680,000 Turks, 1,100,000 Greeks, 1,900,000 Albanians, and 1,400,000 Slavs.

For further information on the Turkish Empire, see Map No. 31.

BULGARIA.

A Principality under the suzerainty of Turkey, whose prince, since 1886, is also 'governor' of Eastern Roumelia (now known as S. Bulgaria).

Area and Population: Area 38,331 sq. m., pop. (1893) 3,309,816. *Nationalities*: 2,504,000 Bulgars, 570,000 Turks, 60,000 Greeks. *Religion*: 642,240 Moham., nearly all others Greek Cath.

Agriculture: 32 p.c. cultiv., 4 p.c. meadows, 18 p.c. forest.

Commerce: Imports, £3,242,000; exports, £2,898,000. Chief trade with Austria, 23 p.c.; Un. Kingdom, 20 p.c.; Turkey, 19 p.c.; and France, 16 p.c. Staple export: corn (75 p.c. of total). *Railways*: 870 miles.

Government: Rev., £4,043,100; debt, at least £4,000,000. *Army*: 38,000 men. *Flotilla*: 13 vessels on the Danube.

Chief Towns: Sofia, 46,593; Philippoplis, 36,033; Varna, 28,174.

SERVIA.

Area and Population: 18,760 sq. m., pop. (1890) 2,161,961; dec. inc. 20 p.c. *Nationality*: Serv., 90 p.c.; Romanians, 5 p.c. *Religion*: Gr. Orth., 98 p.c.

Industries: Agriculture almost only industry; 50 p.c. of total area cultivated; 12 p.c. is wooded. Mineral resources undeveloped. **Commerce**: Impts., £1,610,000; ex., £1,972,000; chief trade with Austria (75 p.c.). Railways, 336 m.

Government: Limited monarchy. Revenue, £2,550,200; debt (1894), £13,628,000. *Army*: 12,700 men (148,000 on war footing).

Chief Towns: Belgrade, 54,249; Nish, 19,871.

MONTENEGRO.

Area: 3,500 sq. m., pop. 200,000. *Capital*: Cetinje (pron. Tsetinye), 1,200.

ROMANIA.

It extends from the Transylvanian Alps to the Danube and Prut, and includes also the Dobruja, with the Delta of the Danube.

Area and Population: 131,020 sq. m., pop. (estim.) 5,250,000. *Nationality*: Romanians (speaking a Latin tongue), 88 p.c.; 304,000 Jews, 200,000 gipsies, &c. *Religion*: Greek orthodox, 93 p.c.

Industries: 70 p.c. of the total pop. supported by agric.: 29 p.c. of area cultivated, 21 p.c. under grass, 17 p.c. wooded. **Commerce**: Imports, £16,614,000; exports, £12,409,000. Chief trade with Germany, 21 p.c.; Un. Kingd., 22 p.c.; Austria, 18 p.c. Staple export, corn. Railways, 1,596 miles; com. marine (1894), 327 vessels, 67,053 tons (eq. to 22,550 steam tons). International commissions provide for the navigation of the Lower Danube (Sulina mouth) and Prut.

Government: A constitutional monarchy. Revenue, £7,284,000; debt (1894), £43,042,000. *Army*: 49,314 peace, 149,000 war footing. *Navy*: 24 vessels.

Chief Towns (1890): Bucharest, 194,633; Jassy, 72,892; Galatz, 59,143; Braila, 46,715.

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GREECE (Hellas).

Physical: Modern Greece (since 1880) includes a mainland connected by the Isthmus of Corinth with the four-fingered peninsula of Morea (Peloponnesus), and a number of islands (Eubœa, the Sporades, Cyclades, and Ionian Islands). It is essentially a maritime mountain-land, rising in the Pindos to a height of 8,240 feet. The only extensive plain is that of Thessaly, the only navigable river the Aspropotamos.

The Climate is delightful, and snow, in the plains, rare. Athens, mean temp. 65°, Jan. 47°, July 80°, rain 16 in.

Area and Population: 25,143 sq. m., pop. (1889) 2,187,208; decen. inc. 11 p.c. Greek is spoken by the bulk of the pop.; but Albanians (90,000) are met with in Attica, Zinzars (Romanians) in the Pindos, Turks in Thessaly. Religion of the vast majority: Greek Catholic.

Education: nominally compulsory, but of the army recruits 30 p.c. are illiterate.

Industries: 61 p.c. of the pop. is supported by agriculture. Only 26 p.c. of the country is cultivated, 37 p.c. is pasture, 14 p.c. f. woods, and 23 p.c. barren. Wheat, currants, olives and tobacco are the chief crops. The *mines* yield zinc, lead, and iron.

Communications: Railways 567 m. The ship canal of Corinth (20,810 feet) joins the Gulf of Corinth to that of Ægina. Commercial marine (1893): 1,060 v., 332,886 tons (eq. to 166,634 steam tons).

Commerce: Imports, £5,072,800; exports (currants, lead and zinc, wine, figs, olive oil, tobacco), £3,806,720. Of the total trade, 33 p.c. is with the Un. Kingdom, 13 p.c. with Turkey, 11 p.c. with France, 10 p.c. with Austria.

Government: A Constitutional Monarchy with a single Representative Chamber. Rev., £3,614,200; debt, £29 mill., but no interest paid since June 1893. *Army*: 24,800 men, on a war footing 66,250, besides reserves. *Navy*: 59 vessels (5 ironclads, 33 torpedo-boats).

Towns: Athens, 107,846; Piræus, 31,560; Patras, 33,539; Hermupolis (Syra) 22,104; Korfu, 28,328.

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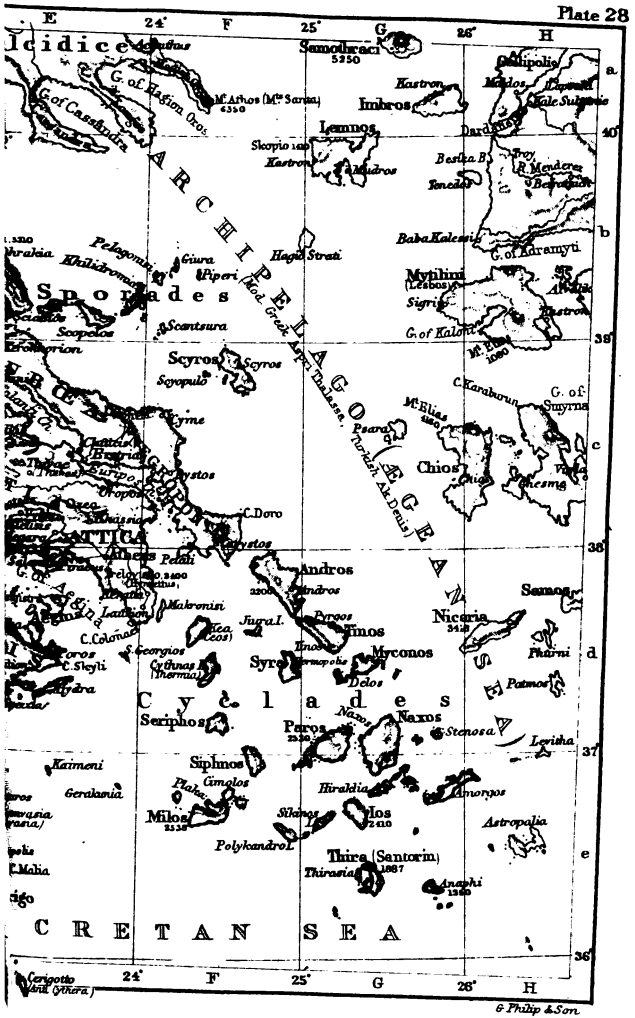

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THE RUSSIAN EMPIRE.

Area and Population: 8,603,820 sq. m., pop. (est. for 1893) 124,734,000, viz., in Europe, 2,081,120 sq. m., pop. 103,000,000; in Asia, 6,522,700 sq. m., pop. 21,728,000. *Religions*: 107,395,000 Christians (85 p.c.), 12,230,000 Moh. (10 p.c.), 4,341,000 Jews, 355 Buddhists, 315 heathen. The Christians include 11,107,000 R. Catholics, 6,263,000 Protestants, and 1,300,000 Armenians. *Nationalities*: 102,438,000 Indo-Europeans (90,398,000 Slavs, or 72 p.c.), 4,346,000 Semites, 17,941 Mongols, and 1,000 Eskimos.

Communications: Navigable rivers and canals, 33,916 miles; railways (1892), 20,235 miles (of the Siberian railway, 1,006 miles open for traffic). Commercial marine (1893), 2,431 vessels, 604,444 tons (equiv. to 305,927 steam tons), besides 2,711 river steamers.

Commerce: Imports, £41,560,000; exports, £60,823,000. Of the total trade 86 p.c. across the European, 14 p.c. across the Asiatic frontier. Principal trade with Germany, 29 p.c.; United Kingdom, 28 p.c.; France, 8 p.c.; Austria, 5 p.c.; United States, Italy, and China. Manufactured goods constituted 23 p.c. of the imports, 11 p.c. of the exports. Staple exports: cereals (44 p.c. of total), wool and timber.

Government: An absolute hereditary monarchy, the Emperor's will alone being law. Rev. (1894), £103,360,150; debt (1894), £820,700,000. *Army*: peace-footing, 869,000 men; war-footing, 2,530,000 men. *Navy*: 329 ships (52 ironclads).

RUSSIA IN EUROPE.

Physical: Russia forms in the main a vast lowland region extending from the Baltic to the Ural Mountains, and from the Arctic Ocean to the Black and Caspian Seas. Frozen tundras occupy the north, immense forests the centre, steppes the south. The fertile "black soil" region occupies 367,000 sq. m. in the centre and south.

Climate: Cold winters, hot summers. Mean temp., St. Petersburg 38°, Moscow 39°, Odessa 49°; Jan., respectively, 15°, 12°, and 26°; July, 64°, 66°, and 73°; rainfall 19 in., 21 in., 14 in.

Area and Population: 1,936,870 sq. m., pop. (1885) 89,685,500, (1895, est.) 100,500,000; decen. incr. 12 p.c. *Nationalities*: Russians, 73,432,000, or 73 p.c.; other Slavs (mostly Poles), 8 mill., or 8 p.c.; Germans, 1,400,000; Lithuanians, 3,500,000; Romanians, 900,000; Jews, 4,250,000; Finns and Tartars, 8,700,000; Calmucks, 150,000. *Religions*: Greek Catholics and dissenters, 78,290,000; R. Catholics, 11,050; Protestants, 3,750,000; Jews, 4,750,000; Mohammedans, 2,830,000; Buddhists, 150,000; Pagans, 180,000. *Education*: In a backward state; only 20 p.c. of the recruits able to write; 10 universities.

Industries: Agriculture and pastoral pursuits predominant. 26 p.c. of the area cultivated, 16 p.c. meadows, 39 p.c. forests. Live-stock (1888): 20,838,000 horses, 27,623,000 cattle, 48,220,000 sheep, 10,742,000 pigs. Principal crops: rye, oats, wheat, tobacco, wine. *Mining products* most varied: gold, £1,520,000; copper, 2,602 tons; zinc, 4,300 tons; pig-iron, 913,000 tons; coal, 6,745,000 tons; salt, 1,318,000 tons; &c. *Manufactures* employed (1890) 959,345 hands, exclusive of distilleries, breweries, and sugar mills; 3,802,000 spindles, 191,290 power-looms.

Chief Towns (1891): St. Petersburg, 1,035,440; Moscow, 822,397; Warsaw, 455,852; Odessa, 340,526; Kharkof, 194,385; Kief, 180,321; Riga, 180,278; Lodz, 136,091; Kazan, 134,359; Saratof, 122,019; Kishenef, 117,108; Vilna, 109,526; Samara, 100,017; Berdichef, 98,824; Astrakhan, 94,708.

For Finland, see Map XXII.

CAUCASUS.

Government-General, on both slopes of Caucasus (Elbruz, 18,530 feet). Area 182,460 sq. m., pop. (1895) 8,300,000, incl. 2,803,000 Russians, 2,000,000 Caucasians, 1,300,000 Armenians, 1,200,000 Tartars. *Religions*: 66 p.c. Christians, 33 p.c. Moham. The mineral wealth includes naphtha and petroleum (6 mill. tons), coal, silver, copper. The manufactures (1891) employed 40,284 hands.

Towns: Tiflis, 105,000; Baku, 92,600; Yekaderinodar, 66,300; Vladikavkaz, 44,200.

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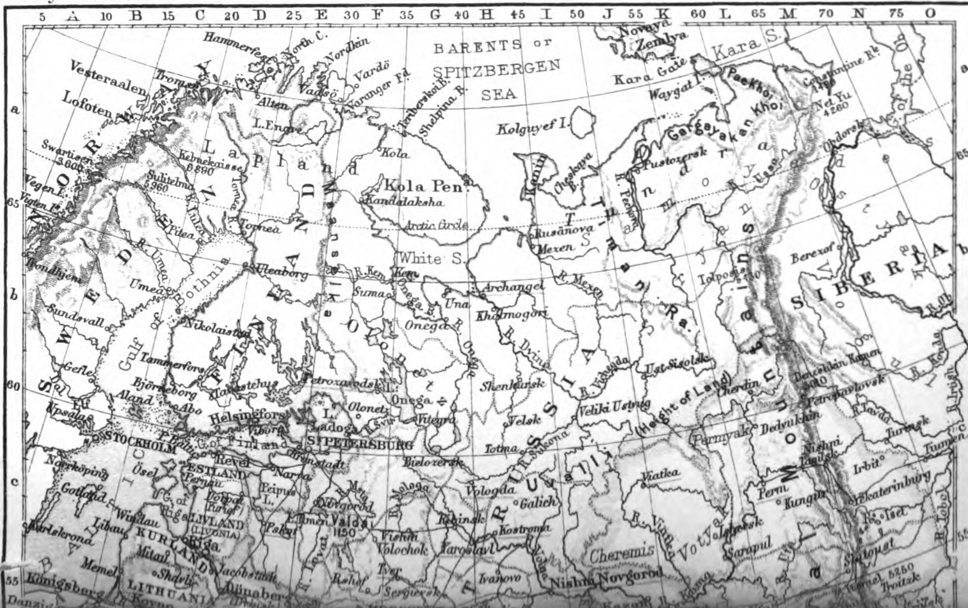
BARENTS or
SPITZBERGEN
SEA
Kara S.
Novaya
Zemlya
Kara Gate
Waygat I.
Paekhoi
Kolguyef I.
Hammerfest
North C.
Nordkin
Vardö
Vadsö
Varanger Fd.
Alten
L. Enare
Vesteraalen
Lofoten
Tromsö
Swartisen
3600
Kebnekaisse
6890
Sulitelma
5960
Vegen I.
Vigten Is.
Lapland
Kola
Kola Pen.
Kandalaksha
Arctic Circle
White S.
Tornea
Tornea R.
R. Lulea
Pitea
R. Umea
Umea
Trondhjem
Sundsvall
Gefle
Dal
Upsala
STOCKHOLM
Gulf of Bothnia
Uleaborg
Nikolaistad
Tammerfors
Björneborg
Aland
Abo
Tavastehus
Helsingfors
Viborg
G. of Finland
Revel
ESTLAND
Pernau
Narva
Peipus L.
Dorpat
LIVLAND
(LIVONIA)
Riga
G. of Riga
KURLAND
Mitau
Libau
Windau
Memel
Königsberg
LITHUANIA
Kovno
Shavli
Jacobstadt
Dünaberg
Ösel
Gotland
Norrköping
Karlskrona
Danzig
St PETERSBURG
Kronstadt
L. Ladoga
Olonetz
R. Svir
Petrozavodsk
L. Onega
Vitegra
Onega
R. Onega
Onega B.
Suma
R. Kem
Kem
Una
Archangel
Kholmogori
R. Dvina
Shenkursk
Velsk
Totma
R. Sukona
Bielozersk
Vologda
Galich
Kostroma
Rybinsk
Yaroslavl
Novgorod
Valdai
1150
L. Ilmen
Pskov
Vishni
Volochok
Tver
Rshef
Ivanovo
Nishni Novgorod
Cheremis
Votyaks
Viatka
R. Viatka
Sarapul
Perm
Kungur
Ekaterinburg
Irbit
Zlatoust
Troitzk
Iset
R. Tobol
Tiumen
Turinsk
R. Tavda
Nishni
Tagilsk
Dedyukhin
Permyaks
Petropavlovsk
Denezhkin Kamen
Cherdin
(Height of Land)
Ust Sisolsk
R. Vichegda
Veliki Ustyug
R. Mexen
Mexen
Rusanova
Kanin
Cheskaya B.
R. Pechora
Pustozersk
Gargayakan Khoi
Tolposis
Berezof
Obdorsk
Constantine Rk.
Net Yu
4260
R. Ob
R. Irtish
R. Konda
SIBERIA
RUSSIA
FINLAND
SWEDEN
NORWAY
Timan Ra.
Tundra
Ural Mountains

RUSSIA
Scale 1:24,000,000
English Miles
0 100 200 300
Principal Railways
BLACK SEA
CASPIAN SEA
S. of Azof
Crimea
LITTLE RUSSIA
Ukraine
NEW RUSSIA
VOLHYNIA
PODOLIA
BESSARABIA
POLAND
HUNGARY
ROUMANIA
BULGARIA
EAST. ROUMELIA
TURKEY
SERVIA
GREECE
GEORGIA
Armenia
PERSIA
Caucasus
Kalmuks
Ust Yurt
TURKMEN
Kara Kum
Lake Aral
Obchei Syrt
Mugojar Hills
Ergeni Hills
Don Cossacks
Odessa
Kherson
Kief
Kharkof
Sevastopol
Constantinople
Adrianople
Smyrna
Trebizond
Batum
Tiflis
Baku
Astrakhan
Saratof
Voronesh
Rostof
Taganrog
Erzerum
Tabriz
Krasnovodsk
G. Philip & Son.

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ASIA.

Position and Extent: Asia, the 'great' continent of the Old World, is really *one* with Europe, which is merely its largest and most important peninsula, and is joined to Africa by a narrow isthmus. Development of coast-line 36,000 m., or one mile of coast to every 445 sq. m. Distance from Asia Minor to Bering Strait, 5,990 m.; from C. Chelyuskin to C. Buru, near Singapore, 5,360 m. Total area 17,074,050 sq. m., of which mainland 16,034,240 sq. m. (incl. of peninsulas, 3,300,000 sq. m.), islands 1,039,860 sq. m.

Relief: The lofty tableland of Tibet rises in the centre of Asia like a huge citadel. It is bounded in the S. by the Himalaya (Mt. Everest, 29,000 ft.), in the N. by the Kwen-lun; ramifies in the E. and S.E. into China and E. China, and is continued in the W. by the Hindu Kush (Tirach Mir, 25,426) and the plateaus of Iran, Armenia, and Asia Minor. A second plateau, of much inferior height, lies to the N. of Tibet, being girt by the Pamir, the Tien-shan (Khan Tengri, 24,000) and other ranges. It includes the basin of the Tarim (Lob Nor, 2,600 ft.); the Turfan basin, believed to be depressed below the sea-level; and the great desert of Gobi. The principal isolated highland regions of Asia are the mts. of Corea, the Deccan, the mts. of Syria and Arabia, the Caucasus (Mt. Elbruz, 18,530 ft.), and the Ural (Yaman-tau, 5,400 ft.). The great plains are those extending from the Caspian through Turkistan and W. Siberia to the Arctic Ocean; that of the Euphrates and Tigris, of Hindustan and China.

Hydrography: A large portion of Inner Asia forms a continental basin, sending no river to the sea, and in many parts riverless. Within it lie the Caspian S., 169,380 sq. m. (84 ft. below sea-level); L. Aral (26,170 sq. m.), fed by the Syr and Amu Daria (Oxus); L. Balkash (1,135 sq. m.) with the Ili, Lob Nor, Kuku Nor (10,400 ft.). The great rivers of the continent are: the Ob (drainage area, 1,190,000 sq. m.), the Yenisei (937,000 sq. m.), which flows through L. Baikal (12,441 sq. m.), the Lena (871,000 sq. m.), the Amur (807,000 sq. m.), the Hwang-ho (386,000 sq. m.), the Yang-tse-kiang (723,000 sq. m.), the Ganges (500,000 sq. m.), and the Euphrates (255,000 sq. m.).

Climate: Great contrasts between the dry cold of N. Siberia and the hot damp of the Malay Arch. *Temperature* is generally lower than that of Europe under similar latitudes, and the range between summer and winter is greater. In Arabia, and parts of Central Asia, little or no rain falls.

Population (estim. for 1895): 839,523,000, or 43 to a sq. m. (British Provinces of India, 239; China, 224; Siberia, 1.27).

Races: 1. *European Aryans*, as colonists or permanent residents, numerous only in Siberia (Russians) and Asia Minor (Greeks), 11,633,000. 2. *Asiatic Aryans*, viz.—Hindu, Afghans, Baluchi, Persians, Kurds, Armenians, Caucasians, &c., 253,967,000. 3. *Semites* (Arabs, Syrians, Jews), 8,137,000. 4. *Mongolians*, incl. Mongols, Turks and Tartars, Chinese, Japanese, Tunguz, &c., 461,987,000. 5. *Malays*, 42,059,000. 6. *Dravidas*, in India, 61,656,000. 7. *Various*, 84,000, incl. a few Eskimo (Chukchi), Negroes, &c.

Religions: 1. *Christianity*, although Asia was its birth-place, only numbers 26,493,000 adherents, of whom 11,797,000 are in the Russian Empire. 2. *Jews*, 253,000. 3. *Mahom.*, 151,328,000, of whom 62,864,000 within the Brit. Possessions. 4. *Aryan Religions*, Hindu, Buddhist, Confucian, &c., number 648,207,000 adherents. 5. *Heathen*, 13,243,000.

Political Divisions: 1. *European Possessions*, 9,480,510 sq. m., pop. 391,005,000, incl. British Asia 2,022,660 sq. m., pop. 307,500,000; Dutch Asia, 571,960 sq. m., pop. 33,385,000; Russian Asia, 6,522,740 sq. m., pop. 21,728,000 (46 p.c. European, 32 p.c. Mongol and Turk); French Asia, 241,385 sq. m., pop. 20,478,000; Spanish Asia (Philippines), 114,330 sq. m., pop. 7,000,000; Portuguese Asia (Goa, Timor), 7,715 sq. m., pop. 905,000. 2. *Mohammedan States* (Turkey, Persia, Afghanistan, and Indep. Arabia), 2,535,270 sq. m., pop. 31,008,000. 3. *Mongolian States* (China, Japan, Siam, Corea, Nepal, &c.), 4,888,570 sq. m., pop. 417,510,000.

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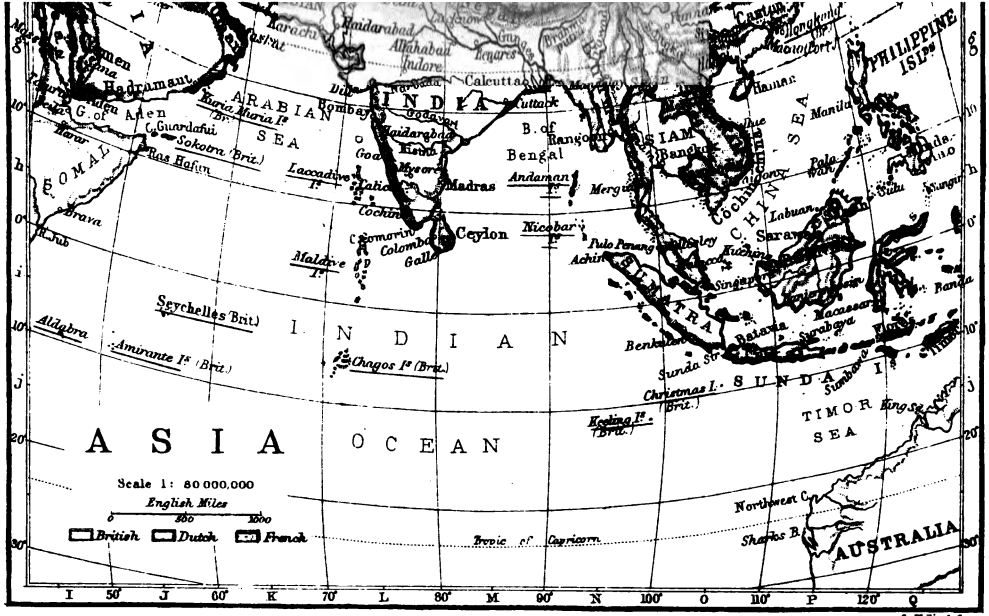
ATLANTIC OCEAN
Iceland
GREENLAND
Denmark Str.
GREENLAND SEA
Jan Mayen
BRITISH ISLES
London
North Sea
Paris
GERMANY
Berlin
NORWAY
SWEDEN
BALTIC
Finland
Spitzbergen
Bear I.
Franz Josef Ld
SPITZBERGEN SEA
Novaya Zemlya
Kara Sea
C. Chelyuskin
Taimyr Pen.
New Siberia
Wrangell I.
Bering Str.
BERING SEA
Aleutian Is.
Kamchatka
Petropavlovsk
SEA OF OKHOTSK
Okhotsk
Kurile Is.
Sakhalin
Riga
St. Petersburg
Archangel
Dvina
Moscow
Warsaw
Kief
Odessa
Kazan
Volga
Don
Astrakhan
Orenburg
Uralsk
RUSSIA
AUSTRIA HUNGARY
Vienna
Rome
BLACK SEA
Constantinople
Smyrna
Cyprus
Beirut
Damascus
Jerusalem
Cairo
TURKEY
CASPIAN SEA
Tehran
Khiva
Bokhara
Samarkand
Kokan
TURKESTAN
Kirghiz Steppe
Turgai
L. Balkash
Akmolinsk
Semipalatinsk
Omsk
Tobolsk
Tomsk
Yeniseisk
Irkutsk
Obdorsk
Ob
Yenisei
Turukhansk
Tunguska
Angara
Yakutsk
Lena
SIBERIA
Yablonoi Mts
Stanovoi Mts
Nerchinsk
Amur
Kolima
Indigirka
MONGOLIA
Desert of Gobi
Hami
Sayan Mts
Altai Mts
MANCHURIA
Tsitsihar
Kirin
Mukden
Vladivostok
SEA OF JAPAN
JAPAN
Hakodate
Nagasaki
COREA
Yellow Sea
Kansu
Tarim
Kashgar
Yezo
Ural Mts
OCEAN
ARCTIC OCEAN
PACIFIC OCEAN
PERSIA
ARABIA



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TURKEY IN ASIA.

Turkey in Asia includes (*a*) the Peninsula of Asia Minor, an extensive plateau which extends eastward into the Highlands of Armenia (Mount Ararat, 16,920 ft.) and Kurdistan; (*b*) the narrow plateau of Syria (Mt. Hermon, 9,150 ft.); (*c*) the low-plains of the Euphrates and Tigris; and (*d*) the Western Highlands of Arabia.

Area and Population: 689,100 sq. m., pop. 15,430,000, of whom 12,370,000 are Mohammedans, 2,840,000 Christians, 110 Jews, 70 Gipsies, and 70 Kizilbashi. According to race or language there are 6,700,000 Turks, 5,220 Arabs, Syrians, and other Semites, 1,500,000 Kurds, 760,000 Armenians, 1,000,000 Greeks, 250,000 Caucasians, &c.

Chief Towns: Smyrna, 225,000; Damascus, 150,000; Aleppo, 110,000; Baghdad, 100,000; Beirut, 105,000; Erzerum, 60,000; Brussa, 75,000; Mosul, 57,000; Manissa, 52,000; Kaisaria, 50,000; Diarbekr, 47,000; Trebizond, 45,000.

SAMOS, 180 sq. m., pop. 48,000. A tributary principality under a Greek Prince. Imports, £166,020; exports, £159,820 (wine, raisins, hides, oil).

THE TURKISH EMPIRE.

Immediate Possessions: 1,095,470 sq. m., pop. 22,180,000 (in Europe, 67,910 sq. m., pop. 5,750,000; in Asia, as above; in Africa, Tripoli, 338,470 sq. m., pop. 1,000,000).

Tributary States: Bulgaria, 38,330 sq. m., pop. 3,400,000; Samos, *see* above; Egypt, 372,170 sq. m., pop. 7,630,000.

Grand Total: 1,506,150 sq. m., pop. 33,250,000. This is exclusive of Bosnia and Cyprus, which have not been definitely severed from the Turkish Empire.

Commerce and Industries: 68,750 sq. m. are stated to be under cultivation, and 3,281 sq. m. to be wooded. The greater part of the Empire consists of pasture-land or deserts. The crops include our cereals, cotton, tobacco, olives, coffee, wine. Sericulture is largely practised. The mines yield coal, lead, silver, &c., but, like the other natural resources of the country, are little developed. Sponges are fished in the Mediterranean, mother-of-pearl in the Red Sea, pearls in the Persian Gulf. Carpets and brass-work are esteemed products of industry.

Railways (1894): 1,935 m. (899 in Europe). Mercantile Marine, 584 vessels, 124,348 tons, equiv. to 59,185 steam-tons. Of the tonnage entering Mediterranean and Black Sea Ports, 36 p.c. is British, 18 p.c. Ottoman.

Commerce: Imports, £20,573,500; exports, £19,014,700. Staple exports: cereals, raisins, silk, opium. Chief trade with United Kingdom, 42 p.c.; France, 19 p.c.; Austria, 15 p.c.

Government: An absolute monarchy, tempered by the precepts of the Koran. Rev. (1893-4), £19,720,000; debt, £165,000,000. *Army*: 180,000 men on a peace, 700,000 on a war footing. *Navy*: 102 ships (18 obsolete ironclads).

Capital: Constantinople (1885), 873,560 inh., of whom 44 p.c. are Moham.

CYPRUS.

An island in the Mediterranean, administered by Great Britain in accordance with a Convention made with Turkey, to whom is paid an annual tribute of £92,800.

Area 3,580 sq. m., pop. (1891) 209,286, incl. of 48,000 Moham. Imports, £335,930; exports, £3,490,300. Staple exports: carobs, cereals, wine, cotton, silk cocoons. Of the trade only 30 p.c. is with the Un. Kingdom. Revenue (1893-4), £177,054. Capital, Nicosia, 12,515.

CAUCASIA.

A Russian Government-General, between the Black and Caspian Seas. The Caucasus (Elbruz, 18,530 f.) traverses its centre. North of it a vast pastoral plain; to the south the plateaus of Georgia and Armenia.

Area 182,460 sq. m., pop. 8,300,000, incl. 2,803,000 Russians, nearly all recent settlers on the north slope of the Caucasus, 2,000,000 Georgians and other Caucasians, 1,300,000 Armenians, 1,350,000 Turks and Tartars. There are 5,500,000 Christians and 2,705,000 Mohammedans.

Chief towns: Tiflis, 105,000; Baku, 92,600; Yekaderinodar, 66,300.

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PALESTINE.

Extent: Palestine, endeared to the Christian world as the scene of the labours of Jesus Christ, is at the present time a mere geographical expression. Within its old limits, from "Dan to Beersheba" (150 m.), its area is about 12,000 sq. m., but including the whole of the Livas of Beirut, Damascus, and the Hauran, it extends over 27,000 sq. m.

Physical Features: Four great longitudinal divisions, parallel to the Mediterranean, viz.:—(*a*) A maritime plain, narrow in the north, but gradually widening to the south of Mount Carmel, of exceeding fertility; (*b*) a belt of mountains and plateaux, beginning in the N. with the Lebanon (10,070 feet), and continued in the limestone hills of Galilee and Judæa; (*c*) a long valley, including the Bek'aa on the Upper Litani (Leontes), between the Lebanon and the Jebel esh Sharki (Anti-Libanus, 8,724 feet) and Jebel esh Sheikh (Hermon, 9,150 feet), and the Ghor ("Depression") of the Jordan, ending in the Dead Sea (1,292 feet below sea-level); (*d*) a plateau region to the east of the Jordan, upon which rises the volcanic Jebel Hauran (5,910 feet) and which merges gradually into the desert.

Climate: Jerusalem, 2,440 feet above the sea; mean temp. 63° (Feb. 47°, Aug. 76°); rainfall 22 in. Beirut, mean temp. 69° (Jan. 55°, August 82°); rainfall 36 in. Snow falls not infrequently at Jerusalem, and remains for months on Mount Hermon. The rains fall from the end of October to the beginning of May.

Productions: Palestine is still a land of corn, vine, and oil (olive); and in its fertile plains wheat still yields a hundredfold as of yore. Sheep and goats are the commonest domestic animals. Coal is found near Beirut and Saida, amber near Saida, and asphalte near Hasbeiya.

Fauna: The lion and wild bull have disappeared, but the deer, antelope, fox, wolf, hyena and jackal, wild boars, leopards and conies, ostriches and crocodiles, still survive.

Commerce: The chief ports are Beirut, Saida (Sidon), Akka (Acre), Haifa, and Yafa (Joppa). A railway connects the last with Jerusalem, whilst railways from Beirut and Haifa are in course of construction to Damascus. The exports include wheat, raisins, apricots, oranges and lemons, oil, sesame, tobacco, raw silk, and wool.

Population: Arabic is the common language, but the constituent elements of the population are most varied. The peasantry is mainly of Aramaic stock, and the Mongols, who ruled in the land before the Exodus, and later immigrants have become merged in it. In the east the Arabs are more or less of pure extraction. The later immigrants include Greeks, Jews, Germans, and numerous other nationalities.

Religion: Islam predominates, but is split up into a number of sects, including the Metawileh (of Persian origin), the Ismailiye, the Anseiriyeh, and the Druzes. Among the numerous Christian sects, the Maronites, chiefly in the Lebanon, form an interesting element.

Political Divisions: The Livas of Damascus (with the Hauran) and Beirut, and the independent districts of Jerusalem and Lebanon, the latter since 1861 under a Christian governor.

Towns: Damascus, 150,000; Beirut, 105,000; Jerusalem (1891) 41,335; Yafa, 20,000.

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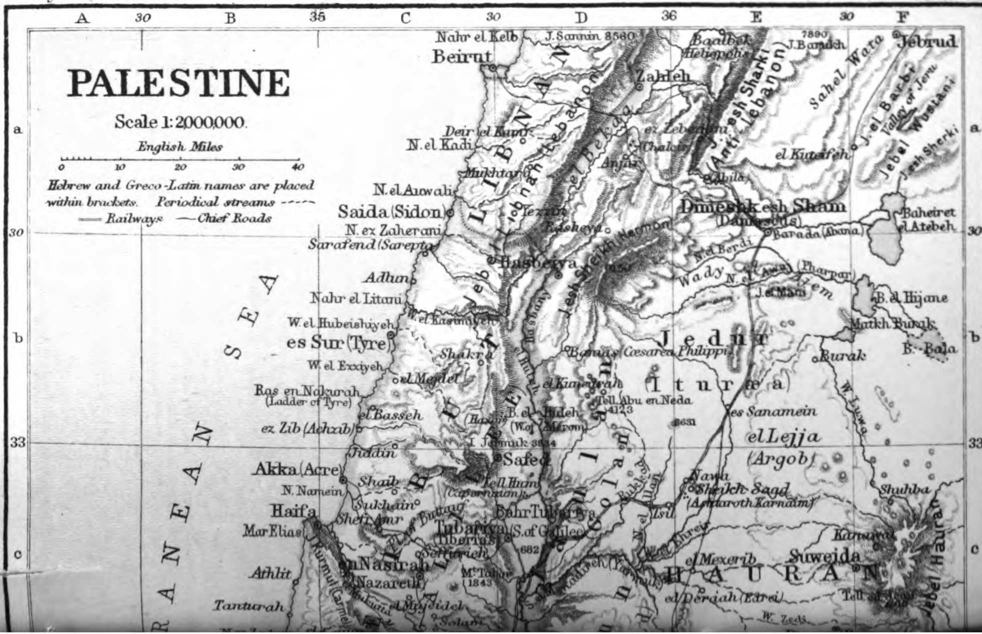
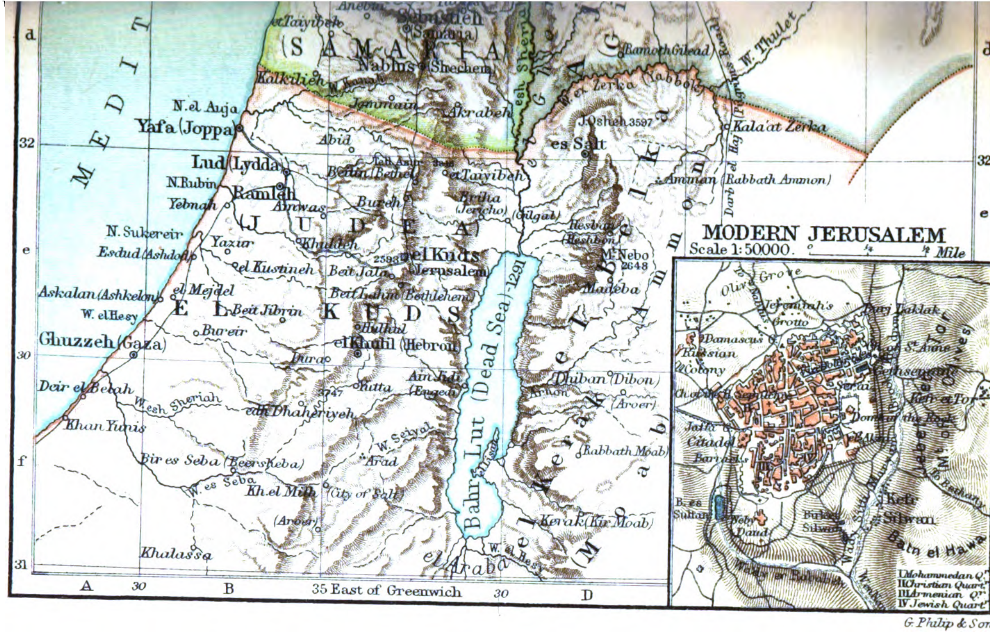

PALESTINE
Scale 1:2000000.
English Miles
0 10 20 30 40
Hebrew and Greco-Latin names are placed within brackets. Periodical streams
Railways — Chief Roads
Nahr el Kelb
J. Sannin 8560
Beirut
Baalbek
Heliopolis
Zahleh
Jebrud
Sahel Wata
J. el Barbi
Valley of Jeru
Jebel Wustani
J. esh Sherki
J. esh Sharki (Anti Lebanon)
el Kutaifeh
Deir el Kamr
N. el Kadi
Mukhtara
N. el Auwali
Saida (Sidon)
Dimeshk esh Sham (Damascus)
Baheiret el Atebeh
N. ex Zaherani
Sarafend (Sarepta)
Barada (Abana)
Hasbeiya
N. el Berdi
Wady
Pharpar
Adlun
Nahr el Litani
B. el Hijane
W. el Hubeishiyeh
W. el Kasimiyeh
Matkh Burak
es Sur (Tyre)
Jedur
B. Bala
Banias (Caesarea Philippi)
Burak
W. el Exxiyeh
Shakra
el Kuneitrah
Itur a a
el Mejdel
Ras en Nakurah (Ladder of Tyre)
Tell Abu en Neda 4123
es Sanamein
el Basseh
3631
ez Zib (Achzib)
J. Jermuk 3934
el Lejja
(Argob)
Jiddin
Safed
Akka (Acre)
Shaib
Tell Hum (Capernaum)
Nawa
Sheikh Sagd
(Ashtaroth Karnaim)
Shuhba
N. Namein
Sukhnin
Haifa
Shefa Amr
Bahr Tubariya
Tubariya (Tiberias)
(S. of Galilee)
682
Mar Elias
Kanawat
Seffurieh
Suweida
el Mexerib
en Nasirah (Nazareth)
Mt. Tabor 1843
HAURAN
Athlit
Kurmul (Carmel)
ed Deraah (Edrei)
Tantura
Jebel Hauran
W. Zedi
Solam
Golan
MEDITERRANEAN SEA
A B C D E F
a b c
30 33 35 36


MEDIT
SAMARIA
Sebustieh (Samaria)
Nablus (Shechem)
Kalkilieh
Jemmain
Akrabeh
N. el Auja
Yafa (Joppa)
Abid
Lud (Lydda)
N. Rubin
Ramleh
Yebnah
Amwas
Beitin (Bethel)
et Taiyibeh
Eriha (Jericho)
(Gilgal)
JUDEA
N. Sukereir
Esdud (Ashdod)
Yazur
Khuldeh
el Kuds
Jerusalem
el Kustineh
Beit Jala
Askalan (Ashkelon)
el Mejdel
Beit Lahm (Bethlehem)
EL KUDS
Beit Jibrin
W. el Hesy
Bureir
Hulhul
Ghuzzeh (Gaza)
el Khalil (Hebron)
Dura
Deir el Belah
Ain Jidi (Engedi)
Yutta
W. esh Sheriah
edh Dhaheriyeh
Khan Yunis
W. Seiyal
Arad
Bir es Seba (Beersheba)
W. es Seba
Kh. el Milh (City of Salt)
(Aroer)
Khalassa
el Araba
Bahr Lut (Dead Sea) -1291
esh Sheria
W. ez Zerka (Jabbok)
Ramoth Gilead
W. Thulet
J. Osheh 3597
es Salt
Kala'at Zerka
Amman (Rabbath Ammon)
Darb el Haj
Hesban (Heshbon)
M. Nebo 2648
Madeba
Dhiban (Dibon)
Arnon
(Aroer)
(Rabbath Moab)
Kerak (Kir Moab)
W. el Hesy
(MOAB)
d
e
f
32
30
31
A
B
D
35 East of Greenwich
MODERN JERUSALEM
Scale 1:50000.
0 ¼ ½ Mile
Olive Grove
Jeremiah's Grotto
Damascus G.
Russian Colony
Burj Laklak
St. Anne
Gethsemane
Serai
Kefr et Tor
Dome of the Rock
Jaffa G.
Citadel
Barracks
B. es Sultan
Neby Daud
Birket Silwan
Kefr Silwan
Batn el Hawa
Wady er Rababeh
To Bethany
Mt. of Olives
I. Mohammedan Qr.
II. Christian Quart.
III. Armenian Qr.
IV. Jewish Quart.
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IRAN.

The plateau of Iran stretches from Armenia and the lowland of the Euphrates and Tigris eastward to the plains of India. It is girt on the north by the Hindu Kush and Elburz Mountains (Demavend, 18,500 ft.), which fall steeply to the Caspian and the plain of Turkistan. Much of this country consists of deserts.

Politically the plateau is divided between Persia, Afghanistan, and Baluchistan.

PERSIA.

Area: 635,150 sq. m., pop. 9,000,000, of whom only 115,000 are non-Musulmans. The Tajiks are the leading race (nearly 7 mill.), besides whom there are Kurds and Lur, Arabs, Mongols and Turkish tribes, and many others.

Commerce: Imports, £5,781,000; exports, £4,376,000. Quite half the trade is through the ports of the Persian Gulf, and of the tonnage entered 87 p.c. is British. Staple exports are opium, pearls, carpets, cotton, silk, tobacco.

Chief Towns: Tehran, 200,000; Tabriz, 180,000; Isfahan, 80,000; Mashhad, 50,000; Balfrush, 50,000.

AFGHANISTAN.

Afghanistan occupies the N.E. part of the Iranian plateau, and extends across the Hindu Kush to the plains of Turkistan and the Upper Oxus. Area 229,000 sq. m., pop. 4,500,000, all Moham., with the exception of 50,000 Hindus and a similar number of heathen. The Afghans (Pathans) numbering 2,650,000, constitute a majority. Next in importance are sedentary Tajiks (750,000), nomadic Hazara, Aimak (Mongols, 200,000), and Usbeg Turks. Imports, about £938,000; exports, £727,000. Principal towns: Kabul, Kandahar, Herat.

BALUCHISTAN.

Baluchistan includes (*a*) the confederation of chiefs under the Khan of Kelat, who is himself a British feudatory (105,000 sq. m., pop. 350,000), and (*b*) British Baluchistan (40,000 sq. m., pop. 623,000), which comprises Quetta and certain districts 'assigned' or ceded by Afghanistan or Baluchistan. The Mohammedan Brahui are the ruling tribe, although not the most numerous.

A railway connects Quetta with the Indus, and is to be continued to Kandahar.

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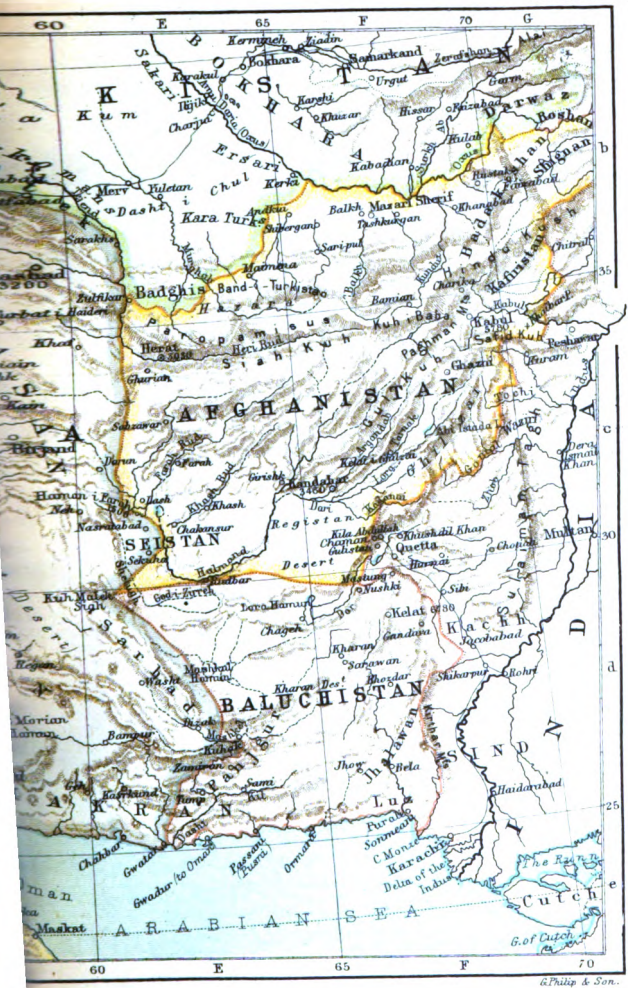

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INDIA AND FURTHER INDIA.

This map is more especially intended to exhibit the British Empire in India in its entirety, and its geographical position relatively to the surrounding countries.

The Peninsula of India constitutes a well-defined geographical unit, shut off from the main body of Asia by the Himalayas and other mountain-ranges, whose passes are difficult to pass. Irrespective of the inner slopes of these mountains there are five distinct regions, viz.—(*a*) a great northern plain, which stretches from the Arabian Sea to the head of the Bay of Bengal, is watered by the rivers Indus and Ganges, and stretches eastward up the Brahmaputra into Assam; (*b*) a belt of hills and tablelands which bounds this plain in the S.; (*c*) the plateau of the Deccan; (*d* and *e*) the two marit. lowlands being narrowed by the 'Ghats.'

India extends far into the temperate region. Mean an. temp. of Madras 82° (extreme months, 76° and 88°), of Bombay 80° (74° and 85°), of Calcutta 78° (65° and 85°), of Lahore 75° (54° and 93°), and of Simla, 7,048 ft. above sea-level, 55° (41° and 67°). The rains are governed by the Monsoons. Average about 40 in.; heaviest along the East coast (Bombay 74 in.) and in the hills (Simla 70 in.), least in the plains of the N.W. (Lahore 22 in.).

Area and Population: 1,870,072 sq. m., pop. (1891) 291,092,805, viz.—British Provinces, 964,913 sq. m., pop. 221,086,026; N.W. Transfrontier districts, 49,000 sq. m., pop. 922,000; Feudatory states and tribes within the British borders, 856,159 sq. m., pop. 69,084,778. Estim. total pop., in 1895, 301,724,000! There are only 958 females to every 1,000 males. Only 9.48 p.c. of the pop. live in towns, and less than 5 p.c. in towns of over 20,000 inh. The decen. increase is 11 p.c.

Languages: 96 languages are spoken, but only 20 by more than 1 mill. souls, Hindi taking the lead. Aryan languages (Hindi, Bengali, Marathi, Punjabi, Gujarathi, Uriya, Sindhi, &c.) are spoken by 77 p.c. of pop.; Dravidian (Telugu, Tamil, Kanarese, Malayalam, Santhal, Gond, &c.) by 19 p.c.; Mongolic (Burmese, &c.) by 3½ p.c. In 1891 there were 245,745 Europeans.

Religions: Hindus, with Buddhists, Sikhs, Jains and Parsi, form a majority (76 p.c.). Moham. (20 p.c.) in the majority in Sindh, the Punjab, Kashmir, and the N.W. transfrontier districts; heathen (animists) still number about 9,650,000 (3 p.c.), and there are 2,285,000 Christians (1,315,000 R. Cath.).

Education: In 1893 there were 144,985 schools, 3,981,042 schoiars. In 1893 only 8.55 p.c. of the males were able to read.

Industries: Agriculture supports nearly 60 p.c. of the population. Out of a total area of 826,022 sq. m. returned, 346,247 sq. m. were under cultivation, 140,514 sq. m. fit for cultivation, and 85,727 sq. m. covered with forest. The leading crops are rice (102,724 sq. m.), wheat (33,570 sq. m.), other food crops (155,520 sq. m.), oil-seeds (21,164 sq. m.), cotton (13,997 sq. m.). 41,686 sq. m. were artificially irrigated. The *mines* yield coal (an. 2,345,300 tons), iron, petroleum (6,597,300 gallons), gold (174,491 oz.), rubies (in Burma). In 1893 1,913 factories employed 316,815 hands. 157 cotton and jute mills were worked by steam, employed 183,000 hands, and had 34,418 power-looms and 3,540,148 spindles.

Communications: Railways (1894), 18,500 m. Of the ton. entered 85 p.c. is Brit.

Commerce: Impts. (private merchandise), £45,562,300; expts., £61,894,914. Staple expts.: Raw cotton (£8,342,000, 252,415 tons), rice (£8,056,200, 1,601,135 tons), seeds (£6,914,400), opium (£5,849,000, 115,330 cwts.), wheat (£5,805,200, 826,668 tons), jute, tea. Chief trade with the Un. Kingd. (49 p.c.), Brit. Colonies (11 p.c.), China (10 p.c.), France (6 p.c.). Impts. of treasure, £1,015,388; expts., £1,792,370. Impts. along the land-frontiers, £2,314,000; exports, £2,246,000.

Government: Executive vested in a Gov.-General, and a 'Council' of 5 members, all appointed by the Crown. There is also a 'Legislative Council,' with from ten to sixteen additional members, nominated by the Gov.-General, partly on the recommendation of non-official bodies. The local governments enjoy a large measure of independence. There are 761 municipal towns. The nat. states are subject to the control of the Central Gov. represented by Residents or political agents.

Revenue (an. av. of 10 years), £57,000,000; debt (1893), £62,873,000 in India, £106,683,770 in England. *Army* (1894): European, 74,040; native, 145,738; Imperial Service troops (supported by the Native States), 19,292.

PORTUGUESE INDIA includes Goa, Daman, and the island of Diu, 1,410 sq. m., pop. (1881) 514,170, incl. about 260,000 Eurasians and Christian Jews.

FRENCH INDIA includes Pondicherry, Karikal, Yanaon, and Chandarnagar (near Calcutta); area 196 sq. m., pop. (1891) 283,053. Imports, £182,400; exports, £752,000.

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INDIA (North).

All statements of Population refer to 1891.

BENGAL, a Brit. Prov. under a Lieut.-Governor, 157,043 sq. m. (incl. the Sundarbans), pop. 71,346,987, of whom 53 p.c. speak Bengali, 64 p.c. are Hindus, 33 p.c. Moham. *Chief Towns:* Calcutta, 741,144 (with S. suburbs, 810,786); Patna, 165,192; Howrah, 116,606; Dacca, 80,383; Gaya, 80,383; Darhanga, 73,561; Bhagalpur, 69,106; Chapra, 57,362; Monghyr, 57,077. *Native States* connected with Bengal, 35,834 sq. m., pop. 3,206,379, viz.: **Nat. Orissa**, 14,387 sq. m., pop. 1,410,183. Language, Uriya. Religion, Hindu 75 p.c.; heathen 25 p.c. **Nat. Chota Nagpur**, 16,054 sq. m., pop. 883,359; Hill Tipperah, 4,086 sq. m., pop. 137,442.

SIKKIM, a British feudatory State in the Himalaya, 2,600 sq. m., pop. 30,459. Capital, Tumlong; Sanatorium, Darjiling.

ASSAM, Brit. Prov. under Chief Commissioner, 49,004 sq. m., pop. 5,476,833, 50 p.c. speak Bengali, 26 p.c. Assamese, 55 p.c. are Hindus, 27 p.c. are Moham. *Towns:* Gauhati, 10,817; Sylhet, 14,027; Shillong (seat of Gov.), 2,185.

Manipur, Native State, 8,300 sq. m., pop. 250,000.

NORTH-WEST PROVINCES and OUDH, administered by a Lieut.-Governor, 107,503 sq. m., pop. 46,905,085, of whom 97 p.c. speak Hindi, 86 p.c. are Hindus. *Chief Towns:* Lucknow, 273,028; Benares, 219,467; Cawnpore, 188,712; Allahabad, 175,246; Agra, 168,662; Bareli, 121,039; Meerut, 119,390; Mirzapur, 84,130; Faizabad, 78,921; and nine others of over 50,000. *Native States:* Rampur 945 sq. m., pop. 551,249; Garwhal, 4,161 sq. m., pop. 241,242. In these 70 p.c. speak Hindi, 69 p.c. are Hindus, 31 p.c. Moham.

PUNJAB, British Province under a Lieut.-Governor, 110,667 sq. m., pop. 20,866,847 (63 p.c. speak Panjabi, 56 p.c. are Moham., 37 p.c. Hindu). *Towns:* Delhi, 192,579; Lahore, 176,835; Amritsar, 136,706; Peshawar, 84,191; Ambala, 73,294; Multan, 74,562; Rawal Pindi, 73,795; Jalandhar, 66,262; Patiala, 55,856; Sialkot, 55,087; Ferozpur, 50,437. *Native States:* 38,[illegible] sq. m., pop. 4,263,280; the chief being **Patiala** (5,951 sq. m., pop. 1,583,521); the largest, **Bahawalpur** (17,285 sq. m., pop. 650,042). Relig.: Hindu 58 p.c., Moham. 30 p.c, Sikh 11 p.c.

KASHMIR, a British feudatory State in the W. Himalaya and on the Upper Indus. Area (incl. Gilgit, Hunza, Chitral) 94,900 sq. m., pop. 2,791,000, of whom 89 p.c. Moham. Capital: Srinagar, 118,900.

N.-W. FRONTIER: Baluchistan, 145,000 sq. m., pop. 972,700 (*see* Map 33). Afghan Borders (with Khaibar Pass), Swat, Kafiristan, 26,900 sq. m., pop. 800,000.

AJMERE, with Mhairwara, division under the direct administration of the Gov. of India, 2,711 sq. m., pop. 542,358, of whom 57 p.c. speak Hindi and 81 p.c. are Hindus. *Chief Town:* Ajmere, 68,843.

RAJPUTANA, a group of 21 Native States mostly ruled by the military caste of the Rajput, who constitute, however, only 5 p.c. of the population. Area 130,268 sq. m., pop. 12,220,343, of whom 85 p.c. Hindus, 8 p.c. Moham. One State (Tonk) is Moham., two (Bharatpur and Dholpur) are Jain. *Chief Towns:* Jaipur, 158,905; Bharatpur, 68,033; Jodhpur in Marwar, 61,849; Bikaner, 5[illegible],252; Alwar, 52,398; Udaipur in Mewar, 49,693.

CENTRAL INDIA, a group of 82 Nat. States, 77,808 sq. m., pop. 20,318,812, incl. 75 p.c. Hindu, 19 p.c. heathen. The chief States are **Gwalior** 29,067 sq. m., pop. 3,525,233, cap. Laskhar, 104,083; **Indore** 8,402 sq. m., pop. 1,094,150, cap. Indore, 92,329; **Bhopal** 6,874 sq. m., pop. 952,486, cap. Bhopal, 76,778.

BOMBAY, British Prov. under a Governor. Area (excl. of Sind and Aden) 77,275 sq. m., pop. 15,985,302 (54 p.c. speak Marathi and 21 p.c. Gujarathi, and 88 p.c. are Hindus, 8 p.c. Moham.). *Chief Towns:* Bombay, 821,764; Poona, 161,390; Ahmadabad, 148,412; Surat, 109,224; Sholapur, 61,915. *Nat. States:* 56,527 sq. m., pop. 7,795,424 (61 p.c. speak Gujarathi, 2[illegible] p.c. Marathi, 85 p.c. are Hindus, 10 p.c. Moham.). The chief States are **Kathiawar** (20,559 sq. m., pop. 2,752,404) and **Cutch** (6,500 sq. m., pop. 558,415).

SIND, a Division of Bombay, 47,739 sq. m., pop. 2,87[illegible],774 (83 p.c. speak Sindhi, 77 p.c. are Moham., 20 p.c. Hindus). *Towns:* Karachi, 105,109; Haidarabad, 58,048. *Nat. State:* **Khairpur** 6,100 sq. m., pop. 131,937.

BARODA, a Native State, 8,226 sq. m., pop. 2,415,413, of whom 93 p.c. speak Gujerathi, 83 p.c. are Hindu, 8 p.c. Moham. Capital: Baroda, 116,420.

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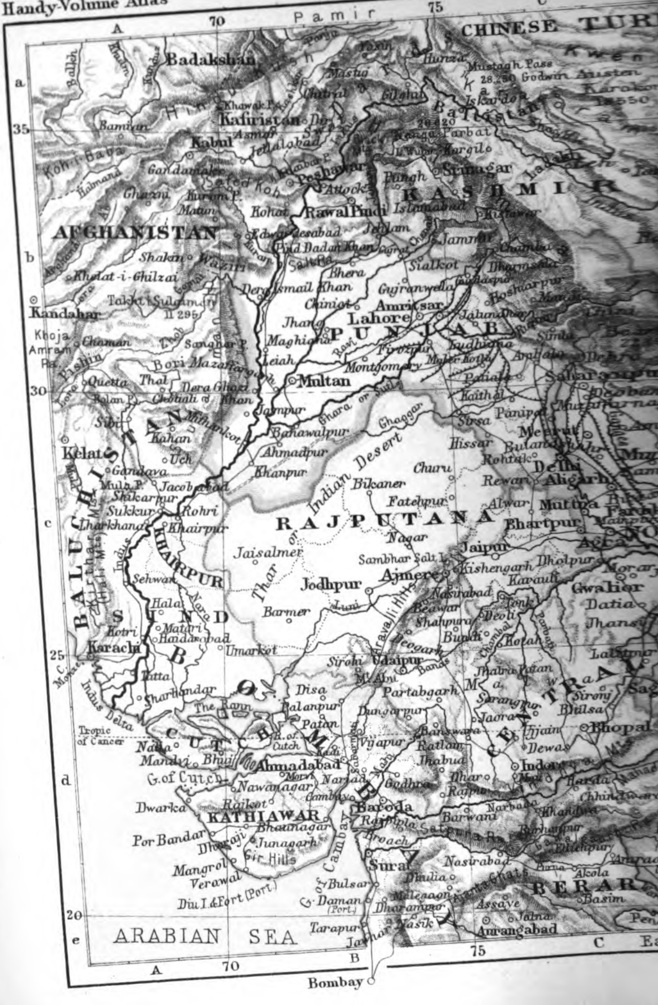

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INDIA (South).

All statements of Population refer to 1891.

CENTRAL PROVINCES, a British Province under a Chief Commissioner, 86,501 sq. m., pop. 10,784,294, of whom 60 p.c. speak Hindi and 82 p.c. are Hindus. *Chief Towns:* Nagpur, 117,014; Jabalpur, 84,481. *Native States:* 29,435 sq. m., pop. 2,160,511, of whom 42 p.c. speak Uriya, 36 p.c. Hindi, and 82 p.c. are Hindus. **Bastar** (13,062 sq. m., pop. 310,884) is the most important.

MADRAS, a British Province under a Governor, 141,189 sq. m., pop. 38,630,440, of whom 40 p.c. speak Tamil, 38 p.c. Telugu, and 90 p.c. are Hindus. This is incl. of the Laccadive Islands (21 sq. m., pop. 14,000). *Chief Towns:* Madras, 452,518; Trichinopoli, 90,609; Madura, 87,428; Salem, 67,710; Calicut, 66,078; Bellary, 59,467; Negapatam, 59,390. *Native States:* 9,609 sq. m., pop. 3,700,626, of whom 74 p.c. speak Malayalan, 75 p.c. are Hindus, 19 p.c. Christians, 6 p.c. Moham. The two leading states are Travancore (6,730 sq. m., pop. 2,557,736) and Cochin (1,362 sq. m., pop. 722,906).

COORG, Brit. District under direct administration of the Government of India, 1,583 sq. m., pop. 173,055 (44 p.c. speak Kanarese, and 90 p.c. are Hindu).

HAIDARABAD, the most important of the feudatory states, on the plateau of the Deccan, 82,698 sq. m., pop. 11,537,040, 44 p.c. speak Telugu, 0.70 p.c. Marathi, 0.89 p.c. are Hindus, 10 p.c. Moham. The ruler (Nilam) is a Moham. *Chief Towns:* Haidarabad (with Secunderabad), 415,039; Aurangabad, 33,887.

BERAR, a British Province under the direct administration of the Government of India, 17,718 sq. m., pop. 2,897,491, of whom 79 p.c. are Marathi and 87 p.c. Hindus. *Chief Towns:* Ellichpur, 36,240; Amraoti, 33,655.

MYSORE, feudatory state, 27,936 sq. m., pop. 4,943,604 (74 p.c. speak Kanarese and 94 p.c. are Hindus). *Towns:* Mysore, 74,048; Bangalore, 180,369.

NEPAL, an independent State on the southern slope of the Himalaya, tributary to China, since 1791. Area 50,460 sq. m., pop. 3,000,000. The Khas or Gurkhas from Rajputana are the dominant race (since 1707). Imports from India, £752,000; exports, £932,000. At Khatmandu, the capital, a British Resident.

BHUTAN, an independent state in the E. Himalaya, nominally under the rule of an incarnation of Buddha, but practically a military oligarchy. Area 13,130 sq. m., pop. 200,000. Imports from India, £15,600; exports, £12,620. Capital, Punakka.

CEYLON.

An island, separated from India by the shallow Palk Strait, and rising from a broad coast belt to 8,296 feet. Mean temp. of Colombo 81° (extreme north 79° and 83°); rain 87 in. At Newara Eliya the mean temp. is 59° (extreme north 57° and 61°); rain 99 in.

Area: 25,365 sq. m., pop. (1891) 3,008,466, incl. 2,041,148 Singalese, 723,853 Tamils, 8,068 Europeans, 21,231 Eurasians, and 216,158 Moormen and others. There were 1,877,043 Buddhists, 615,932 Hindus, 302,127 Christians, 211,995 Mohammedans. Dec. increase 9 p.c.

Agriculture employs 28 p.c. of the population. Cultivated area (1893) 3,166 sq. m., pastures 1,420 sq. m. Tea, cocoa-nuts, coffee, cinchona, cinnamon, cocoa, are all grown. Live stock (1893): 1,662,776 cattle, 92,362 sheep. Valuable plumbago mines; pearl fishery.

Commerce: Total imports, £4,522,830; exports, £4,087,000. Staple exports: tea (£2,218,600, 74,090,083 lbs); coco-nut oil, £396,000; coffee, £288,300. Chief trade with Un. Kingdom, 43 p.c.; India, 39 p.c. *Railways:* 269 miles; of the tonnage entered 85 p.c. is British.

Government: A Crown Colony. Rev. (1893), £1,034,226; debt, £2,718,180. **Towns**: Colombo, 126,926; Jaffna, 43,042; Kandy, 20,252.

MALDIVE ISLANDS: A chain of coral atolls, inhabited by 30,000 Moham. Mopla (descendants of Singhalese and Arabs).

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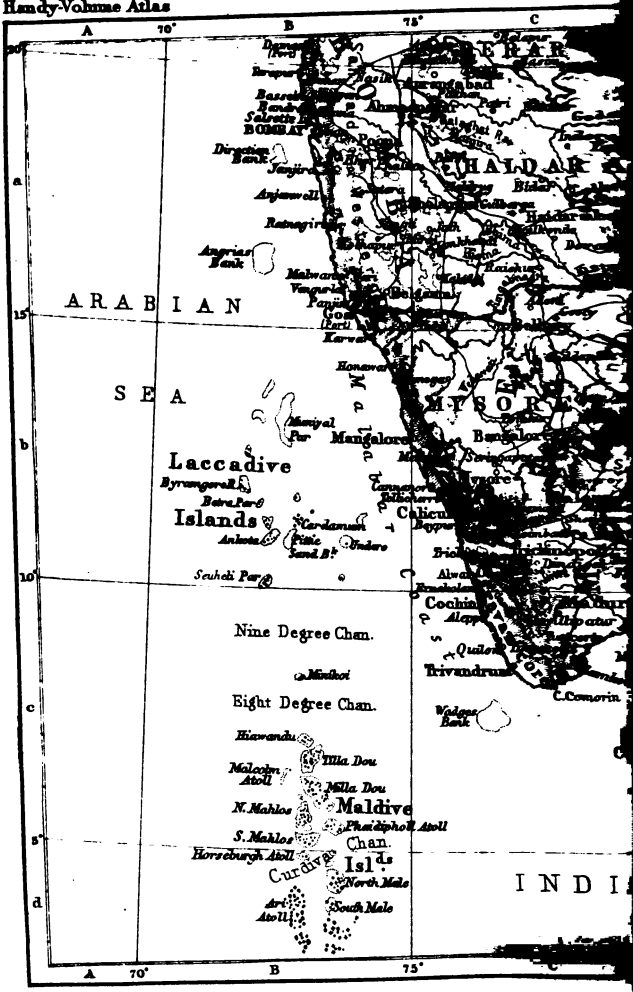

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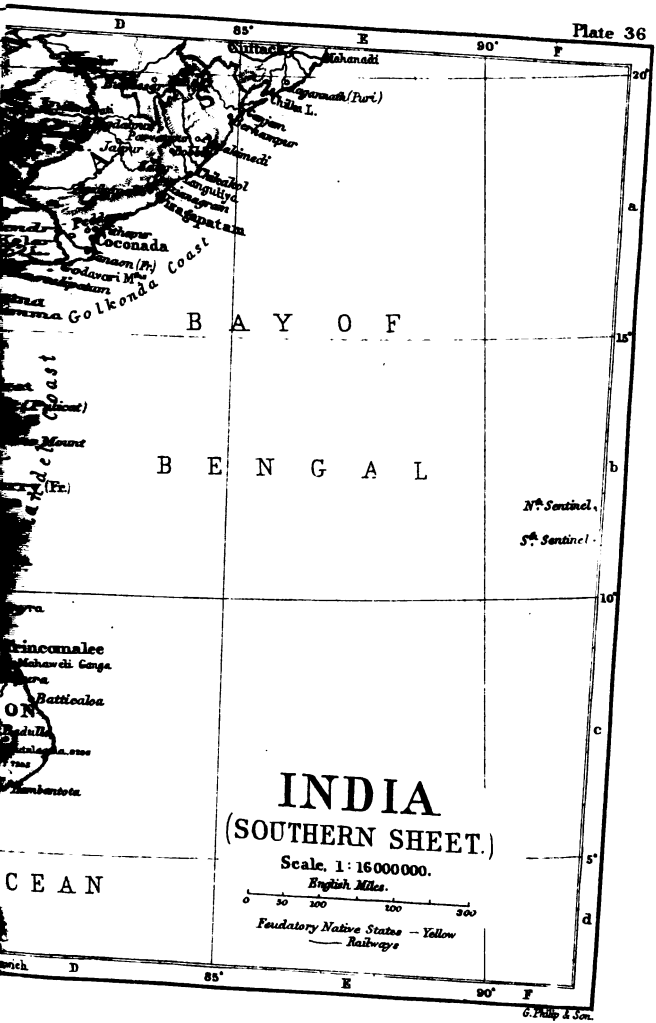

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FURTHER INDIA.

Further India is a huge peninsula between India and China, terminating in the South in the Malay Peninsula. Its great rivers—the Irawadi, Salwin, Me-Nam, and Me-Kong—flow from North to South, and are separated by mountain-ranges which, in the North, attain a considerable elevation. The bulk of the peninsula is within the torrid zone, and under the influence of the Monsoons.

The inhabitants are for the most part of the Mongolic race, and include the Annamites, Khmer or Cambodians, Mon or Talaing of Lower Burma, Burmans, Thai or Siamese. Malays occupy parts of the Malay Peninsula and of the Me-Kong Valley. Buddhism is the prevailing religion.

BRITISH TERRITORIES.

BURMA, a British Province, including Arakan and Tenasserim, is drained by the Irawadi and Salwin, and extends Eastward to a proposed 'buffer state' on the Upper Me-Kong. Mean temp. of Rangoon 79° (extreme months 75° and 85°), rainfall 99 in. At Mandalay, in Upper Burma, only 27 in. of rain annually.

Area: 171,430 sq. m., pop. 7,605,560 (91 p.c. are Buddhists). (The area within Brit. borders occupied by Shans, Lushai, Kakhyen and other tribes, not included above, amounts to 110,000 sq. m., with a pop. of 1,420,000).

Chief Towns: Mandalay, 188,815; Rangoon, 180,324; Maulmain, 55,785.

Andaman Islands, a chain of hilly islands (2,730 ft.), well wooded. Area, 2,500 sq. m., pop. 25,000, of whom 15,609 at the penal settlement of Port Blair.

Nicobar Islands, a group of islands to the S. of the former. Area, 624 sq. m., pop. 6,900. Chief product, coco-nuts.

THE STRAITS SETTLEMENTS, a British Crown Colony, include detached territories, viz.—Penang Island with Wellesley, the Dindings, Malacca, and Singapore. Total area, 1,543 sq. m., pop. (1891) 512,342, incl. 227,989 Chinese, 223,073 Malays, 53,927 Indians, 3,500 Europeans. Total imports, £20,644,510; exports, £19,166,460. The trade is mostly transit; 19 p.c. is with the Dutch E. Indies, 18 p.c. with the Un. Kingdom, 15 p.c. with the Malay Peninsula, 11 p.c. with India. Staple exports: Tin, spices, gambier, gums. Of the tonnage entered 66 p.c. is British. Revenue (1893), £468,435; debt, none.

The Cocos or Keeling Islands (8 sq. m., pop. 554) and **Christmas Island** (39 sq. m., pop. 15), in the Indian Ocean, are dependencies. They export the products of the coco-palm.

PROTECTED MALAY STATES.—These are Perak, Selangor, Sungei, Ujong, the Negri Sembilan federacy, Pahang, and Johor. Area 33,280 sq. m., pop. 620,000, including thousands of Chinese, and a small number of aborigines. Trade chiefly through Singapore. Staple export: Tin.

SIAM.

The Kingdom of Siam is drained by the Me-Nam, and since its curtailment by the French, does not extend beyond the Me-Kong in the East. Area 255,600 sq. m., pop. 6,000,000, including Siamese, Cambodians, Chinese, Lao, &c., all of Mongolic stock, with Malays in the South. Buddhism is the prevailing religion. *Capital*: Bangkok, 200,000 Imports, £1,777,500; exports, £3,921,800. Staple exports: Rice (74 p.c.), salt-fish, teak, pepper. Chief trade with Singapore and Hongkong. Of the tonnage entered 72 p.c. is British. *Railways*: 178 miles.

FRENCH INDO-CHINA.

Includes the colonies of Cochin China on the Lower Me-Kong (22,970 sq. m., pop. 1,880,000), Tong-king on the Songka (38,610 sq. m., pop. 10,000,000), and the protected states of Cambodia (38,610 sq. m., pop. 815,000) and Annam (141,000 sq. m., pop. 7,500,000); total, 241,190 sq. m., pop. 20,195,000. With the exception of the Chiam, who are Malays, and immigrants, the inhabitants are of Mongolic stock. Buddhism is the prevailing religion, and it is asserted that there are 830,000 Christians. Imports, £2,612,000; exports, £2,963,000. Staple export, Rice. Of the tonnage entered 32 p.c. is German, 31 p.c. French. *Railways*, 113 m. A 'Supreme Council' controls the administration of the colonies and protected states. Army of occupation, 46,410 men, incl. 25,280 Europeans.

Towns: Saigon, 17,230; Pnom-Penh (Cambodia), 30,000; Hue (Annam), 30,000; Hanoni (Tong-king), 150,000.

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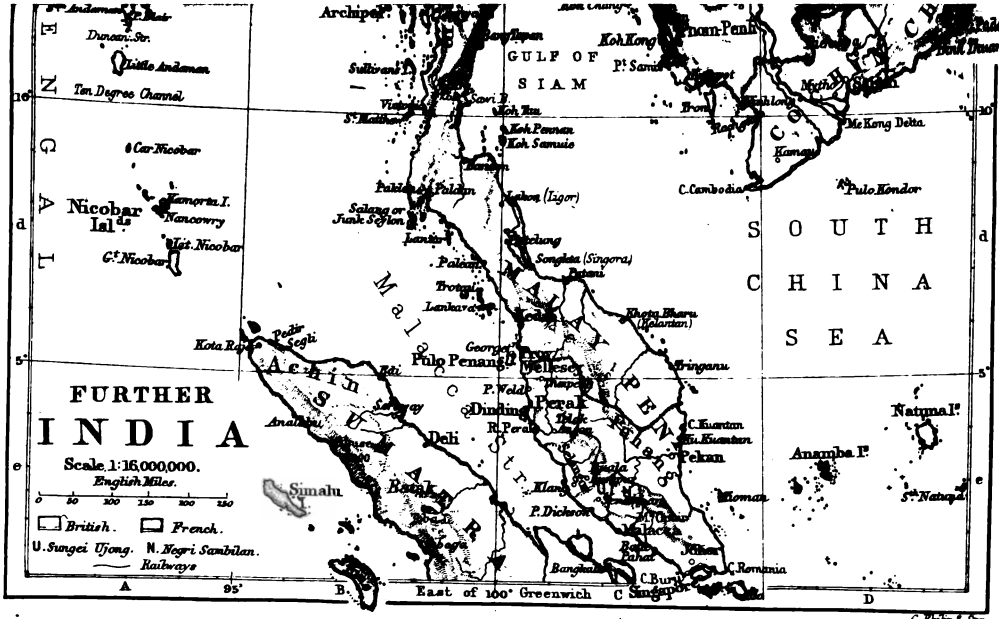
FURTHER
INDIA
Scale 1:16,000,000.
English Miles.
0 50 100 150 200 250
British.
French.
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N. Negri Sambilan.
Railways
BAY OF BENGAL
Nicobar Isl.ds
Car Nicobar
Tamorta I.
Nancowry
Lit. Nicobar
G.t Nicobar
Little Andaman
Ten Degrees Channel
Archipel.
GULF OF SIAM
Koh Kong
Pnom Penh
Pulo Condor
Me Kong Delta
C. Cambodia
SOUTH CHINA SEA
Malay Peninsula
Pulo Penang
Wellesley
Perak
Deli
Batak
Simalu
Kota Raja
Pedir
Segli
Acheen
Sumatra
Singapore
Bangkalis
Rokan
Kampar
Indragiri
Jambi
Palembang
Bangka
Billiton
Natuna I.
Anamba I.
Tringanu
Pekan
Kelantan
Kedah
Ligor (Lugor)
Songkla (Singora)
Patani
Pulo Condor
East of 100° Greenwich
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THE MALAY ARCHIPELAGO.

The Eastern or Malay Archipelago forms a connecting link between Asia and the Australasian world. It consists of five very large and numerous minor islands, nearly all of them mountainous, and many of them bearing active volcanoes. The largest islands are Borneo (281,985 sq. m.; Kinibalu 13,700 ft.), Sumatra (165,682 sq. m., Indrapura 12,260 ft.), Celebes (68,646 sq. m., 10,000 ft.), Java (48,822 sq. m., Semeru 12,010 ft.), Luzon (40,896 sq. m.). Total area of the Archipelago (excl. of New Guinea) 772,745 sq. m.

The islands lie within the tropics. The climate is hot and damp; the rainfall, governed by the monsoons, is heavy. Batavia, mean temp. 79° (extreme months 77° and 80°), rainfall 77 in.

Among the products are spices, camphor, areca nuts, sago, breadfruit, and all the cultivated plants of the tropics.

The inhabitants are for the most part Malays; formerly Buddhists, they are now Mohammedans. Total area (excl. of New Guinea) 766,457 sq. m., pop. 40,886,500, of whom 40,208,000 are Malays, 31,140,000 Mohammedans.

DUTCH EAST INDIES.

These include Java (pop. 24,986,000) and outlying possessions and feudatory states. *Area*, including the Dutch part of New Guinea, 719,507 sq. m., *pop.* 33,623,000, of whom about 60,000 are Europeans, 468,000 Chinese, 27,000 Arabs, 27,000 Indians, &c., 238,000 Papuas, the remainder being Malays. According to religion there are 333,000 Christians, 30,689,000 Mohammedans, 1,002,000 Buddhists, &c., 1,598,000 heathen.

Imports, £14,125,000; exports, £17,101,800. Staple exports: sugar, coffee, tobacco, tin (from Banka and Billiton). Chief trade with the Netherlands, 56 p.c., and the British Indies. *Railways:* 994 miles. Colonial mercantile marine, 1,893 vessels, 84,118 tons. Of the tonnage entered 68 p.c. is Dutch, 32 p.c. British.

Revenue (1894), £10,427,133. Colonial army, 34,780 men (13,590 Europeans); colonial navy, 19 ships (1 ironclad).

Chief towns (1894): Batavia, 114,864; Surakarta, 101,928; Surabaya, 145,690.

BRITISH BORNEO.

BRITISH NORTH BORNEO.—31,000 sq. m., pop. 175,000. The country is ruled by a Chartered Company. Revenue, £41,310. Imports, £209,960; exports, £227,700. Staple export, tobacco. Capital, Sandakan, 6,320.

LABUAN.—A Crown Colony, 30 sq. m., pop. (1891) 5,853. Imports, £50,800; Exports, £39,910. Coal-mines. Capital, Victoria, 1,500.

BRUNEI.—A protected Malay State. Area 8,100 sq. m., pop. 21,000.

SARAWAK.—A protected State ruled by the nephew of its founder, Rajah Sir Ja. Brooke. Area 41,000 sq. m., pop. 300,000. Coal, gold, silver, &c. are found. Imports, £212,810; exports, £259,000. Revenue, £65,300. Capital, Kuching.

THE PHILIPPINE ISLANDS (Spanish).

A group of about one thousand islands, of which Luzon and Mindanao are the largest. Area 114,368 sq. m., pop. 7,000,000, of whom 6,160,000 are Christian Malays. The islands are of exceeding fertility. Sugar, manila, hemp, and tobacco are the staple exports. Coal, iron, gold, &c. are found.

Imports, £3,919,000; exports, £4,272,600. Railways, 120 miles. Of the tonnage entered 65 p.c. is British. Capital, Manila, 154,000.

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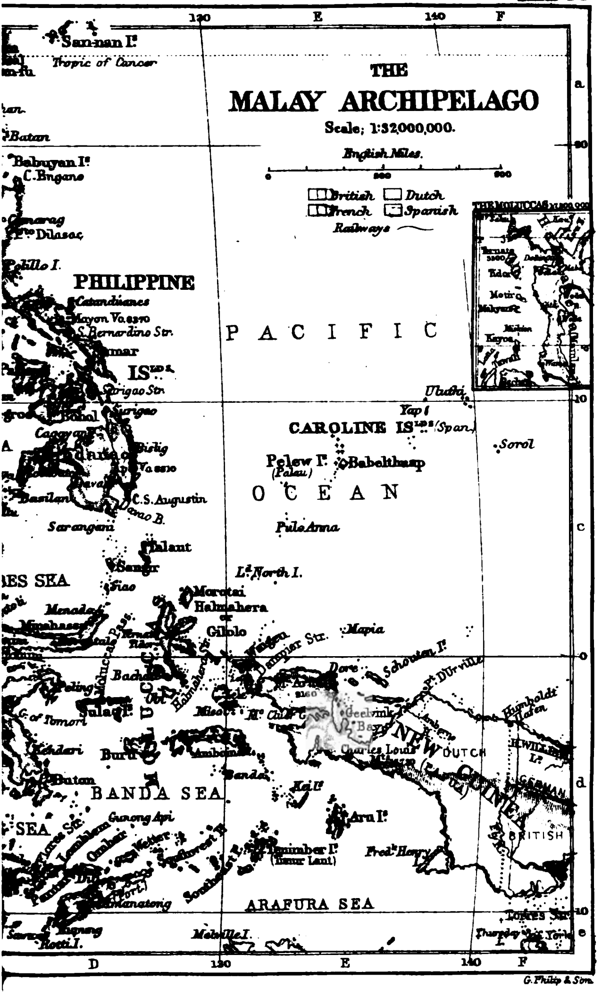

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THE CHINESE EMPIRE.

The Chinese Empire embraces an area of 4,278,400 sq. m., with an estimated population of 358,250,000. Its constituent parts are as follows:—

1. **CHINA PROPER**, 1,532,810 sq. m., pop. 345,250,000. *See* Notes, Map 40.

2. **MANCHURIA**, 363,710 sq. m., pop. 7,500,000, the original home of the reigning dynasty, extends from the Gulf of Liau-tung to the Ho-lung-kiang or Amur river. Its Southern and central portions are fruitful, whilst coal, gold and silver, and other metals are found in the hills. Manchu and other Tunguz still occupy the greater part of the country, but they are outnumbered by Chinese immigrants, who are gradually taking possession of all tracts fit for cultivation.

Three Provinces: (*a*) **Shingking**, in the South (55,980 sq. m., pop. 5,000,000), cap. Mukden, 250,000; treaty-port, Niu-chwang, 60,000; Port Arthur; (*b*) **Kirin** (105,020 sq. m., pop. 2,000,000), cap. Kirin, 200,000; (*c*) **Ho-lung-kiang** (202,710 sq. m., pop. 500,000), cap. Tsi-tsi-han, 60,000.

MONGOLIA, 1,093,100 sq. m., pop. 1,850,000, mainly Buddhist Mongols, but also Calmucks and other Tatar tribes. It is a pastoral region, the desert of Gobi being its great feature. Urga, 70,000, capital, 3,780 ft. above sea; mean temp. 28° (Jan. — 16°, July 64°), rainfall 10 in.

SIN-TSIANG, 550,590 sq. m., pop. 1,000,000, a province of China Proper, includes the basin of the Tarim, between the Tien Shan, or Celestial Mountains, and the Kwen Lun (Chinese Turkistan), and the basin of the Ili to the N. of the former. Most of the country is barren desert. Population much mixed, but the Turk element and Mohammedanism predominate. Capital, Urumtsi, 25,000; Yarkand (4,000 ft. above sea-level), 60,000 (mean temp. year 56°, Jan. 21°, July 82°, rain 1 in.); Kashgar, 50,000.

KUKU-NOR, a pastoral highland region, named after the lake which occupies its centre (10,400 ft.) 274,900 sq. m., pop. 150,000 Tangut Mongols.

TIBET, 463,300 sq. m., pop. 1,500,000, the loftiest tableland in the world, with mountains covered with eternal snow. The population is concentrated in the valley of the Sang-po or upper Brahmaputra. The country is ruled by the Dalai Lama, an incarnation of Buddha, and native officials acting under the advice of a Chinese resident. *Capital:* Lhasa (11,900 ft.), 50,000, nearly one half of whom are priests.

Commerce: Imports by sea, £26,137,000; exports, £23,886,000. Staple imports: Cotton goods, £11,125,300; opium, £6,436,700. Staple exports: Silk, raw and manufactured, £8,436,600; tea, £6,446,000; sugar, £513,750. Chief trade with Hong-kong 47 p.c., the Un. Kingdom 16 p.c., continental Europe 9 p.c., Un. States 7 p.c., Japan 6 p.c. Of the tonnage entered 66 p.c. is British.

Railways are still in their infancy, but there exists an extensive system of telegraphs. The mercantile marine numbers 181 vessels of European type, tonnage 42,241.

Government: An absolute monarchy. The superior offices are equally divided among Manchu and Chinese. Revenue, about £20,000,000; customs receipts (1893), £4,397,000; debt, about £9,000,000. The *army*, nominally numbering a million men, utterly failed, whilst the *navy*, which counted 172 vessels (16 ironclads) before the war with Japan, lost its finest vessels to the enemy.

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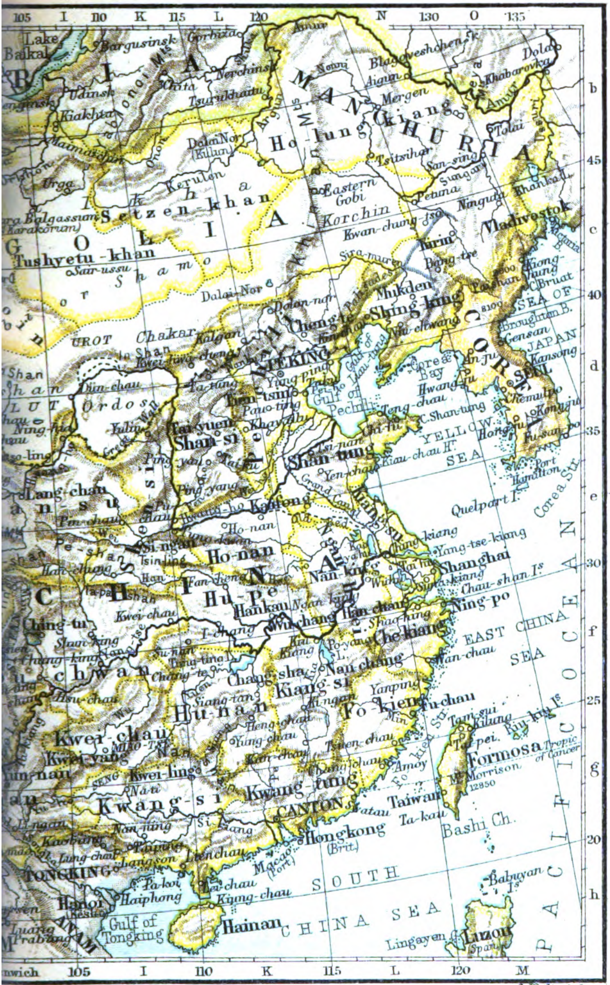

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CHINA.

China is shut off from the rest of Asia by deserts or lofty mountains, and only towards the N.E. a natural highroad leads from it into Manchuria. It is generally hilly, even mountainous, but its two great rivers, the Hwang-ho and Yang-tse-kiang, traverse in their lower courses a plain of exceeding fertility, 200,000 sq. m. in extent. The *climate* naturally varies much in a country extending through 20 degrees of lat., but even in the S. and within the tropics the an. range is very considerable. Mean temp. of Peking 53° (Jan. 24°, July 79°), rainfall 25 in.; mean temp. at Shanghai 59° (extreme months, 36° and 81°), rainfall 43 in.; mean temp. of Canton 69° (extreme months, 55° and 82°), rainfall 85 in.

Area and Population: 1,532,810 sq. m., pop. 345,250,000 (this is exclusive of the Province of Sin-kiang, *see* Map 39). The Chinese form the bulk of the population. They, as also the Hill tribes, are Mongols. Confucianism, Buddhism and Taoism are the recognised religions, and many Chinese profess to adhere to all three. The Hill tribes, in many cases, are still nature-worshippers. The Mohammedans are numerous in Kansu and Yun-nan. Of Christians there are said to be over 1 mill. Rom. Catholics and 50,000 Protestants. The number of European residents does not exceed 10,000.

Industries: Agriculture is the mainstay of the people. Coal, iron and copper abound. Wheat and millet are the staple products of the North, rice of the South. Tea is most extensively grown in the central provinces; most silk comes from the South; opium is cultivated everywhere. Other important crops are cotton, tobacco, sugar. The Chinese are noted for their porcelain, silks and cottons (Nankeen), ivory carvings, lacquer work, bronze, paper, ink.

Commerce, &c., *see* Map 39.

PROVINCES AND TOWNS.

Pe-chili, 115,830 sq. m., pop. 19,350,000. Peking, cap. of the Empire, 500,000; Pan-ting, provincial cap., 150,000; * Tien-tsin, 950,000; Kalgan, 200,000.

Shan-tung, 55,980 sq. m., pop. 25,000,000. Tsi-nan, cap., 200,000; * Chi-Fu, 34,000.

Shan-si, 81,850 sq. m., pop. 11,200,000. Tai-yuen, cap., 250,000.

Honan, 67,950 sq. m., pop. 22,100,000. Kai-fong, cap., 200,000.

Kiang-su, 38,610 sq. m., pop. 21,000,000. Su-chau, cap., 500,000; Nanking, 130,000; * Shanghai, 400,000; * Chin-kiang, 140,000.

Ngan-hwei, 54,830 sq. m., pop. 21,000,000. Ngan-king, cap., 40,000; * Wu-hu, 71,000.

Kiang-si, 69,500 sq. m., pop. 24,600,000. Nan-chang, cap., 300,000; * Kiu-kiang, 53,000.

Che-kiang, 36,630 sq. m., pop. 11,800,000. Hang-chau, cap., 500,000; * Ning-po, 255,000; * Wan-chau, 80,000.

Fo-kien, 46,330 sq. m., pop. 20,500,000. * Fuchau, cap., 636,000; * Amoy, 96,000.

Hu-pe, 71,430 sq. m., pop. 30,000,000. U-chang, cap., * Han-kau, 300,000; * I-chang, 34,000.

Hu-nan, 83,400 sq. m., pop. 21,000,000. Chang-sha, cap., 300,000; Siang-tan, 1,000,000?

Shen-si, 75,290 sq. m., pop. 8,300,000. Si-ngan, cap., 1,000,000.

Kan-su, 125,480 sq. m., pop. 9,300,000. Ning-hia, cap., 30,000; Lan-chau, 500,000.

Su-chwan, 218,540 sq. m., pop. 45,500,000. Ching-tu, cap., 600,000.

Kwang-tung, 100,040 sq. m., pop. 29,700,000. * Canton, cap., 1,800,000; * Kiung-chau (Hainan), 41,000; * Pakhoi, 25,000; * Swa-tau, 23,000.

Kwang-si, 77,220 sq. m., pop. 5,200,000. Kwei-lin, cap.; * Lung-chau, 20,000.

Kwei-chau, 67,180 sq. m., pop. 7,700,000. Kwei-yang, cap.

Yun-nan, 146,720 sq. m., pop. 12,000,000. Yun-nan, cap., 50,000; * Meng-tze, 12,000.

HONG-KONG, British Crown Colony at the mouth of the Canton River. Area, 30 sq. m., pop. (1891) 221,441, incl. 8,545 Europeans. Revenue (1893), £324,700; debt, £340,000. Of the tonnage entered 73 p.c. is British. The trade is almost exclusively transit. Imports from Hong-kong into the United Kingdom, £941,300; exports, £2,051,070. *Capital:* Victoria, 190,000.

MAKAO, Portuguese colony at the mouth of the Canton River. Area, 5 sq. m., pop. 85,000.

* *Treaty Ports and Towns open to foreign commerce.*

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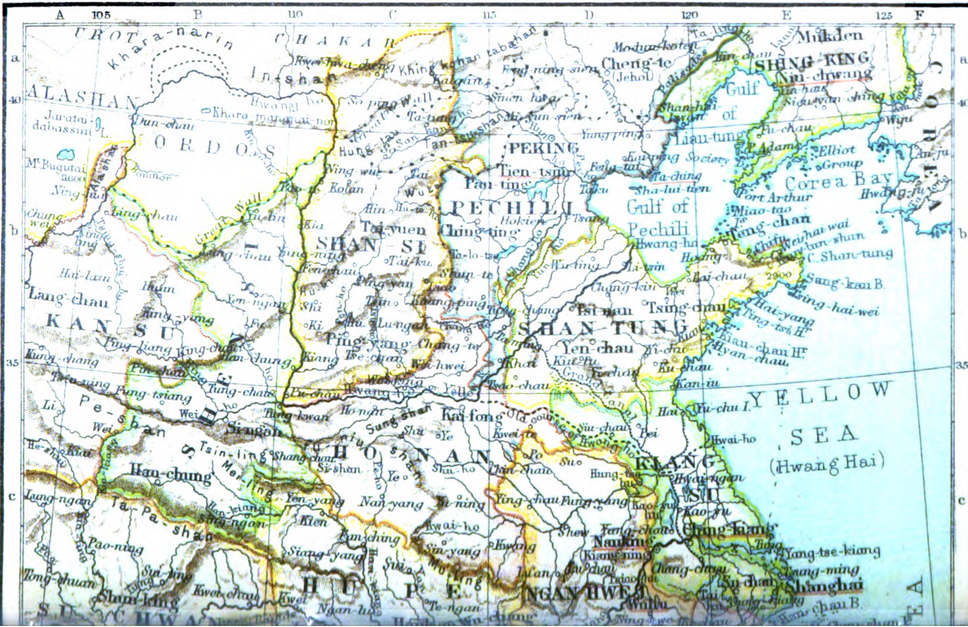

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JAPAN.

The island Empire of Japan now extends for 2,700 miles along the Eastern coast of Asia, from the Southern Cape of Kamchatka to the S. Cape of Formosa. It includes the Kuriles (5,872 sq. m.), Hondo (86,345 sq. m.) and other large islands, the Bonin Islands (28 sq. m.) in the Pacific, the Kiu-kiu or Lu-chu islands (1,538 sq. m.), and, since 1895, also Formosa and the Pescadores (12,350 sq. m.). Most of these islands are mountainous and volcanic (Mount Fujiyama, 12,300 ft.)

Climate: Tokio, mean temp. 56° (Jan. 36°, Aug. 78°), rainfall 61 in.

Area and Population: 159,990 sq. m., pop. (1893) 42,089,940, incl. of 1 mill. in Formosa. Decen. incr. 9 p.c.; birth-rate 30.4 p.m., death-rate 23.4 p.m. *Nationalities*: Aino on Yezo and the Kuriles, Chinese, and aboriginal Malays in Formosa, about 5,000 Europeans, the rest Japanese. *Religions*: Buddhism and Shintoism are the popular religions; 20,000 Christians; 350,000 heathen. *Education*, compulsory; (1892) 3,300,000 children at school; a university at Tokio.

Industries: Agriculture is still the mainstay of the population, but textile industries rapidly developing. Rice, barley, rye, wheat, millet and beans the chief food-plants; tea (an. 602,000 cwts.), sugar, and raw silk of importance. Live-stock small (1,552,530 horses, 1,093,638 cattle). Forests cover 70,520 sq. m. The *Fisheries* (1891) employ 377,501 fishing-boats and 2,508,361 men, and in addition to fish yield also sea-weed. The *Mines* yield gold (£94,000), silver, copper, iron, lead, coal (5,370,000 tons).

Commerce: Imports of merchandise, £11,457,000; exports, £12,860,000. Staple exports: Silk, £5,165,600; silk-stuffs, £1,073,100; tea, £1,113,000; rice, £768,850; coal, £706,950. Chief trade with China and Hong-kong, 25 p.c.; Un. States, 24 p.c.; Un. Kingdom, 17 p.c.; France, 13 p.c. Of the total tonnage entered 56 p.c. is British. *Railways*: 2,146 miles. Merc. marine (European built): 1,421 v., 148,316 tons (equiv. to 117,656 tons), besides 18,193 junks.

Government: A Constitutional Monarchy (since 1889), with a Diet of 2 houses, the members of the upper houses being in part elected. Revenue (1894), £12,600,000; debt, £42,950,000. *Army* (organised on the German system): Peace footing, 269,748 men; Reserve, 91,190 men; Landwehr, 106,088 m. *Navy* (before the war with China): 63 ships, incl. 8 ironclads.

Chief Towns (1893): Tokio, 1,180,569; Osaka, 479,546; Kioto, 308,266; Nagoya, 185,776; Kobe, 148,625; Yokohama, 143,754; Kanazawa, 92,239; Hiroshima, 90,901; Sendai, 70,558; Nagasaki, 63,038.

*** *Formosa is excluded in the above Statistics, unless expressly stated otherwise.*

COREA.

Corea (Kao-li or Chao-hsien) is a mountainous peninsula with summits of 8,000 ft. *Climate*: Cold winters, hot summers. Rainfall on E. coast 62 in., on West coast 32 in.

Area: 84,400 sq. m., pop. 7,500,000, incl. (1894) 9,451 Japanese, 2,697 Chinese, and 234 Europeans. The Coreans are Mongols speaking a polysyllabic language distantly related to that of Japan. Buddhism and Confucianism prevail as in China, and the culture is Chinese. The number of Christians is about 22,000.

Industries and Commerce: Agriculture is the leading industry, and all our cereals, with millet and tobacco, are cultivated. The mines yield gold, silver, copper, iron, coals. Three ports (Chemulpo, Fusan, and Gensan) have been opened to foreign commerce, and their imports amount to £685,750; their exports to £468,400. Staple exports: Rice, £159,300; gold, £123,050; beans, £117,000. Nearly all the trade is with Japan and China.

Government: An absolute monarchy. The suzerainty long claimed by China was finally abandoned in the treaty with Japan 1895. *Capital*, Se-ul, 192,000.

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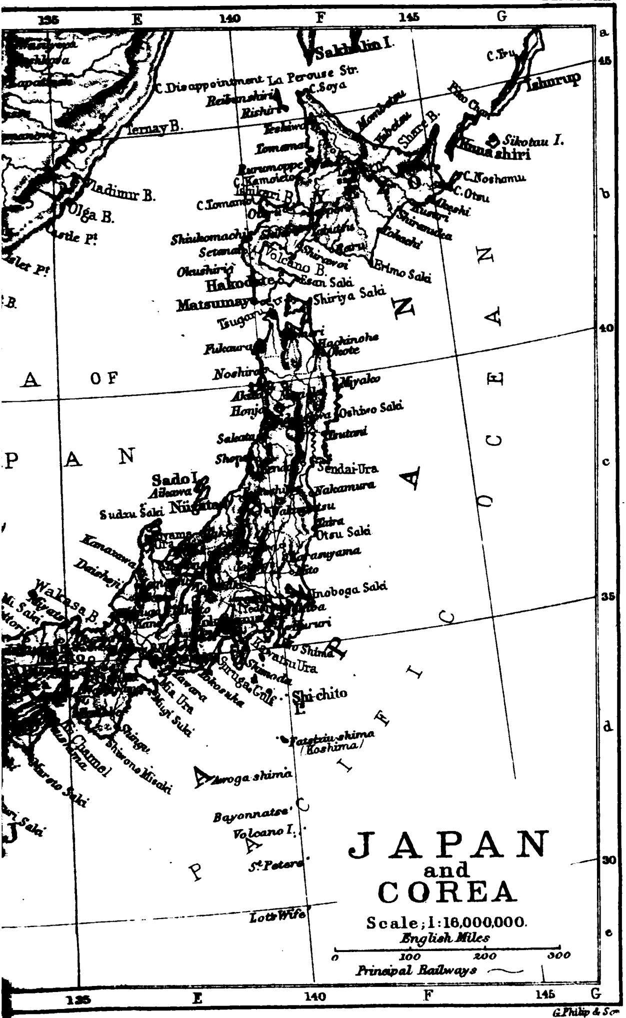

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SIBERIA & RUSSIAN CENTRAL ASIA.

WESTERN SIBERIA stretches from the Kirgiz Steppe and the Altai (Mount Bielukha, 11,000) to the Arctic Ocean. The north is covered with 'tundras' or moss-bogs, but the greater part of the region is an undulating lowland, densely wooded, the larches prevailing in the north, the Siberian fir in the south. The Ob, rising in the Altai, is the great river. Agriculture is carried on with much success; cereals grow to 61° N., and 272,000 sq. m. are stated to be capable of cultivation.

The Gt. Siberian Railway is at present being continued beyond Omsk. Local Army, 11,350 men (on a war footing, 32,211).

The Russian element predominates, the native tribes (Kirgiz, Tatars, Ostyaks, &c.) not exceeding 202,000 souls. All but 160,000 are Christians.

Tobolsk, 529,660 sq. m., pop. 1,478,000. Capital: Tobolsk, centre of fur trade, 21,000. Mean temp. 32° (Jan. – 2°, July 66°) rainfall 19 in.

Tomsk, 331,160 sq. m., pop. 1,816,000, all Russians, excepting 133,000 Kirgiz, Calmucks, &c. Gold, silver, copper, lead, zinc, platinum, coal, &c., are mined in the Altai ("Gold Mountain"). *Towns:* Tomsk, 41,856; Barnaul, 17,500. Mean temp. 31° (Jan. – 3°, July 67°), rainfall 10 in.

THE KIRGIZ STEPPES.—These Governments cover an area of 881,900 sq. m., with a pop. of 2,850,000, among which are 1,037,000 Russians and Poles, 1,789,000 Kirgiz, 14,000 Calmucks, &c. There are 1,797,000 Moham.

The region is not all Steppe, for in the S.E. it rises into wooded mountains, among which lies embedded Lake Isik-kul (5,300 ft.). The largest lake is the Balkash.

Uralsk, 139,170 sq. m., pop. 580,000. Capital: Uralsk, 26,000.

Turgai, 176,220 sq. m., pop. 440,000. Town: Kustanai, 20,000.

Akmolinsk, 229,600 sq. m., pop. 550,000. Towns: Akmolinsk, 5,450; Omsk, 54,700.

Semipalatinsk, 184,630 sq. m., pop. 550,000, Russians and Moham. Kirgiz. Capital: Semipalatinsk, 19,300.

Semirechensk ("Seven River Land," with reference to the seven arms of the Ili), 152,290 sq. m., pop. 690,000, mostly Moham. Kirgiz. The southern part is covered with wooded mountains. Capital: Vernyi, 21,100.

RUSSIAN TURKISTAN.—This includes the Government-General so called (Ferghana and Sir Daria) as also the neighbouring provinces formerly ruled or inhabited by Turkish tribes. Total area 496,370 sq. m., pop. 3,115,000, including 816,000 Uzbek Turks (the dominant race of former days), 510,000 other Turks, 738,000 Kirgiz, 764,000 Tajiks, &c. The bulk of the pop. is Moham., only 86,000 Christians.

Cotton, silk, wine are among the products; coal, iron, lead are mined. Most of the region is barren. The Sir and Amu Darias are the fertilising elements. They enter Lake Aral (26,170 sq. m.).

Climate: Hot summers, severe winters; little rain. At Tashkent mean temp. 56° (Jan. 29°, July 80°), rainfall 12 in.

Sir Daria, 194,850 sq. m., pop. 1,170,000. Towns: Tashkent, 121,410; Khojent, 34,800.

Ferghana, 35,650 sq. m., pop. 830,000. Towns: Kokend, 54,000; Namangan, 33,000. The **Pamir** and other districts on the right bank of the Oxus, recently annexed, cover 25,000 sq. m., but only muster 25,000 inhabitants.

Samarkand, 26,630 sq. m., pop. 760,000. Is situated in the fertile valley of Zerafshan. Cap.: Samarkand, 33,000, terminus of the Trans-Caspian Railway.

Trans-Caspia, the country of the Turkomans, traversed by a railway, 214,240 sq. m., pop. 300,000. Towns: Askabad, 11,000; Merv, 11,000.

KHIVA, a Russian Vassal State since 1873, 23,170 sq. m., pop. 500,000, incl. Uzbeks, Turkomans, and Tajiks. Exports, cotton and silk. Cap.: Khiva, 5,000.

BOKHARA, 79,150 sq. m., pop. 1,250,000, incl. Tajiks, Uzbeks, &c., nearly all of whom are Moham. Silk and cotton are among the exports. Capital: Bokhara, 100,000.

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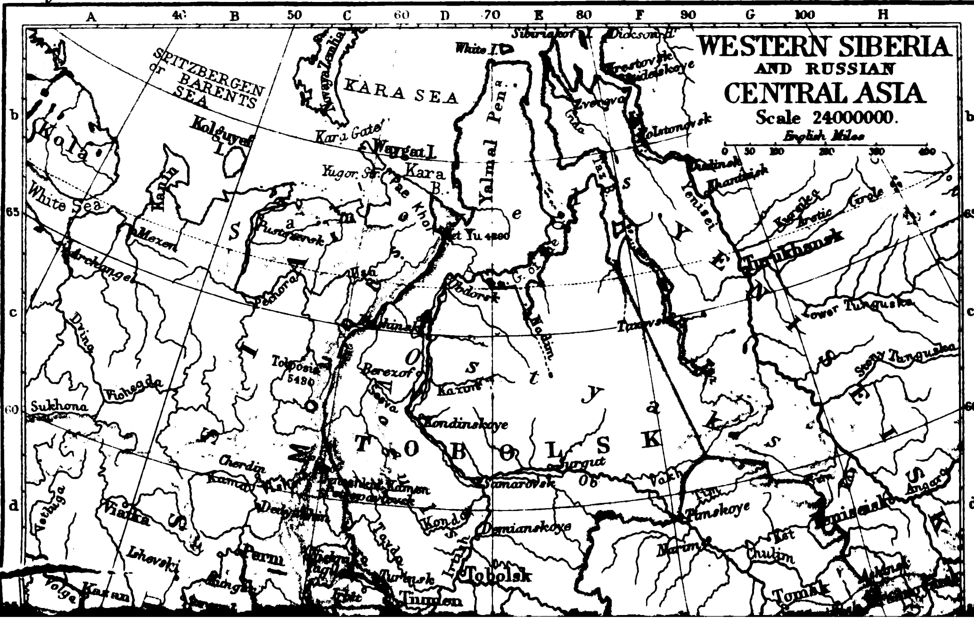

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URALSK
TURGAI
AKMOLINSK
SEMIPALATINSK
SEMIRECHENSK
TURKISTAN
KHIVA
TURKOMANS
FERGHANA
CHINESE EMPIRE
PERSIA
Jungaria
CASPIAN SEA
L. Aral
Orenburg
Uralsk
Kustanai
Barnaul
Biisk
Pavlodar
Akmolinsk
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Kokand
Namangan
Andishan
Osh
Margilan
Samarkand
Bokhara
Karshi
Charjui
Merv
Askabad
Geoktepe
Kizil Arvat
Krasnovodsk
Khiva
Petro-Alexandrovsk
Nukus
Chimbai
Kungrad
Urgench
Kulja
Vernyi
Przhevalsk
Tokmak
Narinsk
Kashghar
Yarkand
Aksu
Kucha
Urumtsi
Chuguchak
Sergiopol
Kopal
Lepsinsk
Kizil Kum
Kara Kum
Ust Yurt
Bek Pak Dala
Balkash 900
Isik Kul 5300
Alexander Ra.
Celestial Mts.
Pamir
Takla Makan
Tarim
Sir Daria
Amu Daria
85 Feet below Sea Level
East of Greenwich 70
G. Philip & Son.

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EASTERN SIBERIA.

Eastern Siberia is more varied in its surface features than the western half of the country. The Sayan, Yablonoi, Stanovoi, and other mountains separate its Arctic slope from the Steppe of Mongolia, the basin of the Amur, and the Sea of Okhotsk. The Yenisei (which flows through Lake Baikal), the Lena, and the Amur are the principal rivers. Tundras occupy the north, but the greater part of the country is wooded, the larch being the most characteristic tree in the north, the fir in the centre, the birch along the sea-board, the oak and Cembra pine in the basin of the Amur, the beech in Manchuria.

The mineral kingdom supplies coal (on Sakhalin), gold, silver, lead, iron, graphite (near Irkutsk).

The climate is most rigorous, and even on the Pacific the winters are intensely cold. At Verkhoyansk, probably the coldest place in the world, the mean temp. is 3° (Jan. – 64°, July 57°). Irkutsk has a mean temp. of 32° (Jan. – 5°, July 66°), rainfall 16 in. At Vladivostok on the Pacific, in the latitude of Florence, the mean temp. is 40° (Jan. 5°, July 69°), rainfall 13 in.

IRKHUTSK, Government-General, 2,807,650 sq. m., pop. 1,364,000, of whom 94,000 are Buddhists, 67,000 Shamanists. The Russians constitute 81 p.c. of the population.

Irkutsk, 287,060 sq. m., pop. 473,000. Chief town, Irkutsk, 50,300.

Yeniseisk, 687,190 sq. m., pop. 384,000. Chief town, Yeniseisk, 6,900.

Yakutsk, 1,533,400 sq. m., pop. 507,000. Chief town, Yakutsk, 6,500.

AMUR, Government-General, 1,155,040 sq. m., pop. 1,055,000, of whom 841,000 are Christians, 162,000 Buddhists, 47,000 Shamanists. The Russians form 80 p.c. of the population.

Trans-Baikal, 236,870 sq. m., pop. 615,000.

Amur, 172,850 sq. m., pop. 218,000. Chief town, Blagoveshchensk.

Coast Province and **Anadir**, 745,320 sq. m., pop. 222,000. This province includes the island of Sakhalin (29,340 sq. m.) and the peninsula of Kamchatka. Chief town, Vladivostok ("Lord of the East"), naval station and terminus of the Trans-Siberian Railway, 13,000.

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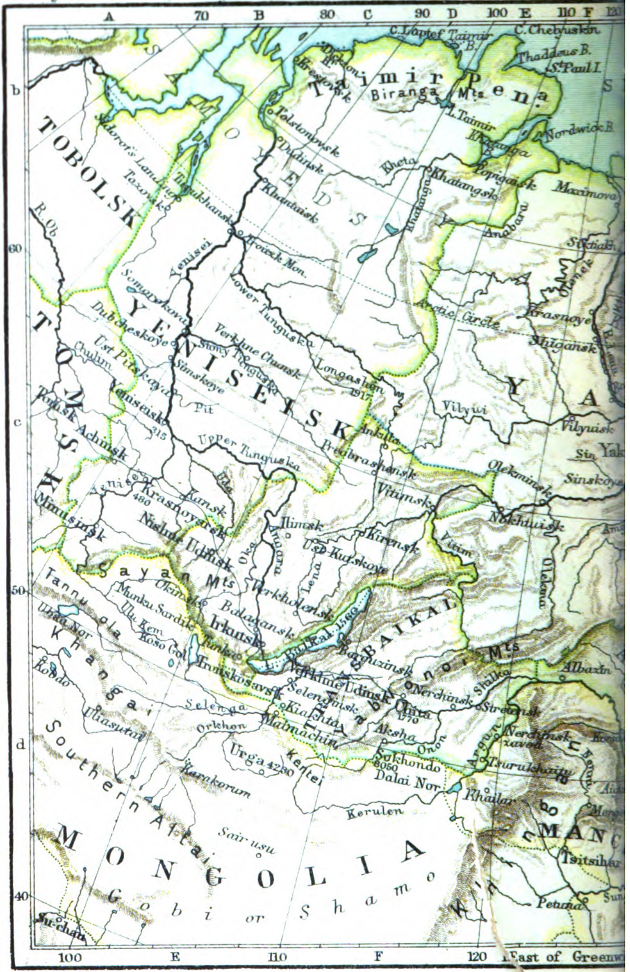

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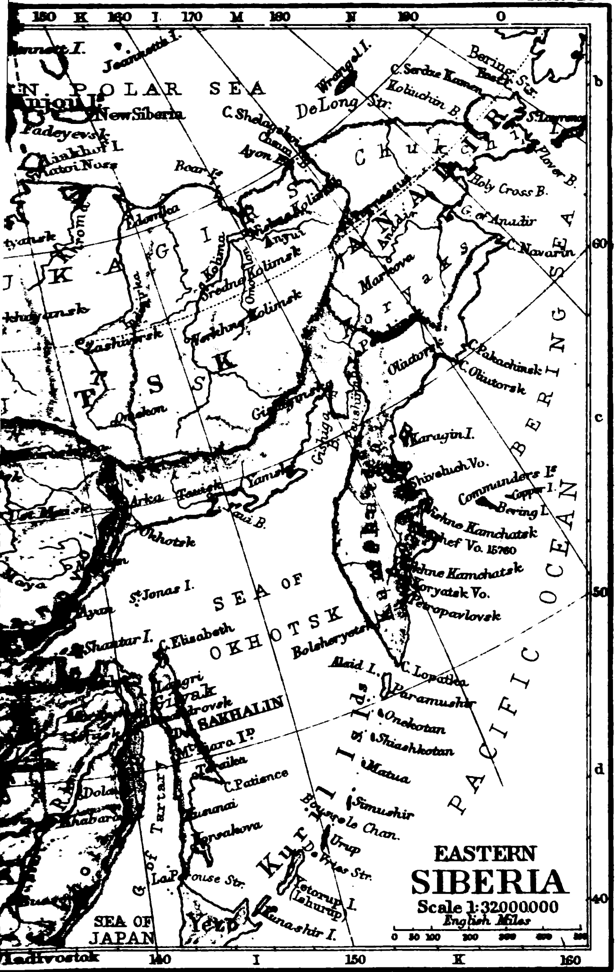

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AFRICA.

Position and Extent: Attached to Asia by the Isthmus of Suez, separated from Europe by the Mediterranean, Africa extends 4,980 m. from N. to S. (Cape Blanco in Tunis to C. Agulhas), and 4,840 m. from W. to E. (Cape Verde to C. Guardafui). Its area, incl. Madagascar and other islands, is 11,521,530 sq. m.

Relief: Nearly all Africa is a plateau. There are no extensive lowlands, but a few localities are depressed below the level of the sea (Shot Melrir, Siwah, Fayum). The mean elevation is 1,975 ft. The Atlas Mountains form a distinct Highland region (Ayashin, 14,150 ft.). In the Abyssinian Highlands Ras Dashan rises 15,200 ft., but the loftiest summits of all Africa are found in the East African Lake region (Kiimanjaro, 19,700 ft.; Kenia, 18,400 ft.; Ruwenzori, 18,000 ft.).

Hydrography: Among the rivers the Nile is the most famous (drains 1,085,000 sq. m.), but the Congo (drains 1,237,900 sq. m.) has the largest basin. Other rivers are the Niger (drains 1,024,000 sq. m.), the Zambezi (drains 553,000), and the Orange River (drains 420,000 sq. m.). Among the continental basins (having no drainage to the sea), those of Lake Tsad, Lake Ngami, Lake Rudolf and the Hawash, are the most considerable. The largest lakes are the Victoria Nyanza (28,100 sq. m.), Tsad (14,240 sq. m.), Tanganyika (12,630 sq. m.), Nyasa (12,170 sq. m.), and Rudolf (3,950 sq. m.).

Climate: Only one-fifth of Africa lies within the temperate zones. At the sea-level a mean temp. of less than 68° is experienced only in Barbary and in the coast-region of South Africa from Durban to Mossamedes. The Mediterranean coasts and a portion of Cape Colony have winter-rains, whilst the greater part of the continent has tropical rains. Two extensive regions—viz., the Sahara, in the N., and the Kalahari with adjoining districts, in the S., are almost rainless.

Population (estimated for 1895): 137,038,000, or 12 to a sq. m.

Races: 1. Negroes, 100,680,000, classed into Sudan Negroes, Bantu, and the scattered tribes of Pigmies among them. 2. Hamites, 12,340,000—viz., Berbers and Tuareg, in Barbary and the Sahara; Copts, Beja, and Nuba, in the Nile Valley; Agau, &c., in Abyssinia; Danakil, Somal, and Galla, in East Africa. 3. Semites, 16,890,000, incl. Arabs and Abyssinians, both much mixed with Berber and Negro blood. 4. Hottentots and Bushmen, 500,000, in South Africa. 5. Malays, principally in Madagascar, 3,515,000. 6. Europeans, 1,716,000, of whom 915,000 are in N. Africa and the Canaries, 710,000 in S. Africa, and only 91,000 in tropical Africa. 7. Hindus and other Asiatics, as labourers in the Mascarenhas, 345,000; Turks, in Egypt, &c.

Religions: 1. Christians, 6,208,000, incl. Copts and Abyssinians. 2. Mohammedans, 60,061,000, incl. all Arabs and Berbers, Beja, Nuba, Somal, increasing numbers of other Hamites, and Negroes. 3. Jews, 258,000. 4. Buddhists, &c., 335,000. 5. Heathens, 70,178,000.

Political Divisions: Nearly *all* Africa has now been absorbed or partitioned by various European Powers, but most native tribes or states included within European 'spheres' are still virtually independent. 1. European Africa, 9,118,740 sq. m., pop. 112,778,000—viz., British Africa, 2,194,870 sq. m., pop. 43,242,000; French, 3,426,790 sq. m., pop. 32,995,000; Portuguese, 826,720 sq. m., pop. 5,472,000; Spanish, 153,830 sq. m., pop. 443,000; German, 884,810 sq. m., pop. 8,370,000; Italian, 548,880 sq. m., pop. 5,150,000; Congo State, 905,090 sq. m., pop. 16,300,000; Boer Republics, 177,750 sq. m., pop. 806,000. 2. Turkish Africa, Egypt and Tripoli, 688,670 sq. m., pop. 8,600,000. 3. Independent, 1,643,670 sq. m., pop. 15,660,000, besides such states as Sokoto, Wadai, Abyssinia, &c., which are included within European spheres.

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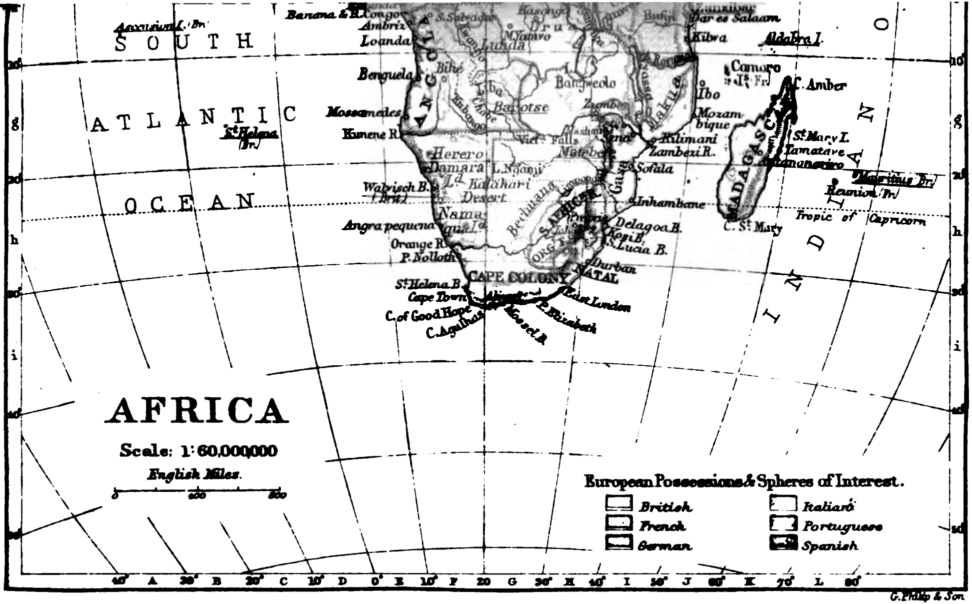

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EGYPT.

A Turkish tributary state, governed, since 1883, under British "advice," and occupied by a British force. *Area* (incl. the Nile Valley to Akashe, the Sinai Peninsula, Suakin), 349,170 sq. m., pop. 7,630,000. Mohammedans, with the exception of 300,000 Christian Copts and 100,000 Europeans.

Commerce and Industries: Agriculture is still the principal resource, about 5,120,000 acres are under crops (cotton, 885,000 acres). Imports of merch., £9,003,530; exports, £15,002,870. Staple exports: cotton and cotton seed, 70 p.c. Chief trade with Un. Kingdom, 46 p.c.; Turkey, 9.3 p.c.; Russia, 8.6 p.c.

Communications: Railways, 1,285 miles; Suez Canal, 87 m. long—of the tonnage of 3,417 vessels which annually pass through it, 86 p.c. is British.

Revenue (1895), £10,266,000; debt, £104,406,890; tribute to Turkey, £665,041. **Army**, under Brit. officers, 13,000 men.

Chief Towns (1882): Cairo, 374,838; Alexandria, 327,864; Damietta, 34,014; Tanta, 33,750.

THE MAHDI'S DOMINIONS. Prior to the revolt of the Mahdi in 1882, the Khedival Possessions extended up the Nile to the Albert Nyanza and the Welle, and incl. Massawa, Berber, Zeila, and Harar; total area 932,000 sq. m., pop. 8,300,000. The territories at present held by the Mahdi, up to 10° N., cover 609,300 sq. m., and have an estimated pop. of 5,800,000, split up into numerous tribes, and including about 2,450,000 Negroes, 1,870,000 Hamites, 1,480 Semites, the bulk of whom are Mohammedans. *Capital*, Omdurman, opposite Khartum.

ITALIAN SPHERE. Total area 548,880 sq. m., pop. 5,160,000.

Eritrea: It includes the Red Sea board (with Massawa), and stretches across the highlands of N. Abyssinia and Keren to Kasala. Area 84,950 sq. m., pop. 450,000, incl. 3,500 Europeans. Imports of Massawa by land and sea, £413,340. Colonial force, 6,000 men.

Abyssinia, an ancient Christian kingdom, is in the main a country of lofty plateaus, intersected by deep valleys, and surmounted by lofty mountains (Ras Dashan, 15,200 feet). The Blue Nile rises in Lake Tsena (5,760 feet). *Climate*: Three zones, viz., Kola (the hot lowlands); Voina Deka (the "Land of the Vine"), 5,000-7,900 feet; and the Deka, or High Plateau. Gondar (6,300 feet), mean temp. 67°, rainfall 34 in. *Area* 155,920 sq. m., pop. 3,600,000, incl. aboriginal Agau, Abyssinians, Galla, &c. Coptic Christianity the dominant religion, but Moham. and heathen numerous. By a treaty concluded in 1889 (but since denounced) the foreign affairs of Abyssinia were handed over to the King of Italy.

Somali and Gallalands: A region of vast extent, acquired since 1889. Barawa and other Zanzibar ports to the N. of the navigable Jubb were ceded in 1892 Area 277,330 sq. m., pop. 800,000.

ARABIA.

Arabia, the largest peninsula in the world (1,000,000 sq. m.), forms a connecting link between Asia and Europe. Bold mountains rise from the maritime plain (Tehama) on the Red Sea, and buttress an inland plateau sloping down towards the east, but rising again in the S E., where Jebel Akhdar attains a height of 9,900 feet. Rains are scanty and irregular, and the greater part of the country is a desert. Among the products are coffee, frankincense and other aromatic shrubs, horses, camels, and sheep. The Arabs fall into two great divisions, the Ishmaelites in the north, the Yoktanides (Sahaeans, Himyarites) in the south.

TURKISH ARABIA includes the province of El Hejaz (with El Hism), 96,500 sq. m., pop. 300,000; and Yemen, 77,000 sq. m., pop. 750,000, on the Red Sea; and the district of El Hasa, 31,100 sq. m., pop. 150,000, on the Gulf of Persia. Principal towns: Medina and Mekka, the sacred cities of the Mohammedans, and the ports of Jidda and Hodeida.

OMÁN, a Moham. Sultanate in S.-E. Arabia. Area 75,000 sq. m., pop. 1,000,000. Cap., Maskat, 60,000. Impts., £302,760; expts., £234,470. Chief trade with India.

INNER ARABIA. Nejd, the old centre of the Wahabis, whose power was broken by Ibrahim Pasha in 1818. Famous for horses. Pop. 400,000; cap., Riyadh. **Shammar**, pop. 110,000; cap., Hail. **Hadramaut**, a fertile valley in the S.

BRITISH POSSESSIONS: **Aden**, with surrounding territory and Perim I., at the entrance of the Red S.; area 80,000 sq. m., pop. 172,000. Impts., £246,000; expts., £221,000. Of the tonnage entered 63 p.c. is Brit. **Kamaran**, an I. in the Red S., 60 sq. m., pop 500. **Kurian Murian**, guano isles on the S. coast of Arabia, 27 sq. m. **Bahrein**, a group of isles in the Persian G., under Brit. protection; famous pearl-fishery. Area 230 sq. m., pop. 68,000. Impts., £28,180; expts., £26,160.

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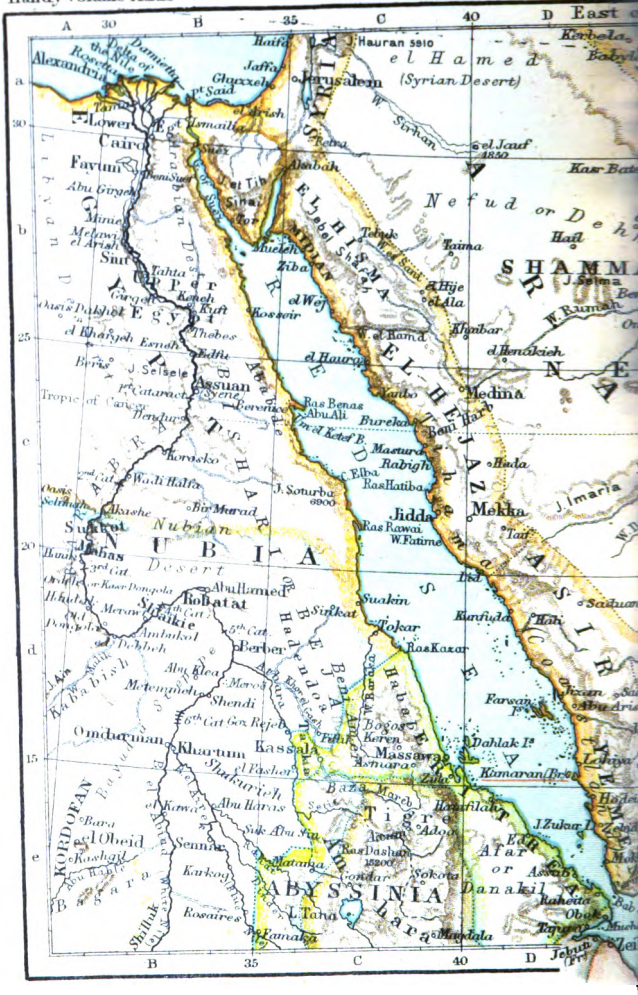

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NORTH AFRICA (BARBARY).

MOROCCO (Maghreb el Aksa, the "Extreme West") is a Mahom. Sultanate, founded at the close of the 7th cent. by Arab invaders. It includes a "Tell" or fertile region opening upon the Atlantic; the Atlas Mts., mostly steppe, with summits covered throughout the year with snow (Ayashin, 14,150 ft.), and a portion of the Sahara. There are no nav. rivers. The British factory at Cape Juby was acquired in 1895. Tangier, mean temp. 64°, rain 32 in.; Mogador 67°, 10 in.

Area and Population: 154,500 sq. m., pop. 6,000,000, incl. 2,000 Europeans, 150,000 Jews, 200,000 Negroes. The bulk of the population consists of Berbers and the descendants of Arab invaders (2 mil.).

Industries and Commerce: The great natural wealth quite undeveloped. Imports by sea, £1,910,000; exports, £1,587,000. Staple exports: Beans, wool, oxen, barley, goat-skins, maize, eggs, almonds, wheat, wax, slippers, woollen goods, olive-oil. Chief trade with Un. Kingdom, 52 p.c., and France 26 p.c.

Government: An absolute despotism. Army, regular, 11,000 men; irregulars, mostly cavalry, 50,000 men.

Chief Towns: Fez, 140,000; Morocco, 60,000; Tangier, 30,000.

THE SPANISH PRESIDIOS: They include Ceuta, Tetuan, and Melilla. Area, 30 sq. m., pop. 16,000.

ALGERIA, conquered since 1830 by France, includes the fertile "Tell" in the N.; the plateau of the Shots (salt-swamps), a steppe region bounded by the ranges of the Atlas, and the Algerian Sahara. There are no navigable rivers. Mean temp. of Algiers, 65° (Jan. 54°, Aug. 77°), rain 27 in.

Area and Population: 309,580 sq. m., pop. (1891) 4,175,000, incl. of 480,000 Europeans (268,000 Fr.), 47,459 Jews. The native pop. incl. Arabs and Berbers (with Tuareg in the S.), all Mahom. *Education:* 1,200 schools, 114,307 pupils.

Industries: About 7,725 sq. m. occupied by agric., but only 1,152 sq. m. really cultivated; 1,254 sq. m. still covered with forest. Principal crops: Barley, wheat, wine (yield 911,000 galls. wine), olives, tobacco, flax, oil, seeds, &c. Halfa (esparto) gathered extensively. Live stock (1893): 371,122 horses, 259,094 camels, 1,273,651 cattle, 9,375,895 sheep, 3,709,600 goats. Coral fisheries of importance. Min. wealth (iron, copper, antimony, quicksilver, silver) very consid., but quite undeveloped.

Commerce (special): Imports, £9,869,100; exports, £8,424,160. Staple exports: Wine, cereals, cattle, wool, cork, skins, halfa. Principal trade with France, 81 p.c., Un. Kingdom, 5 p.c. Railways (1894): 1,819 miles; of total tonnage entered 64 p.c. is French.

Government: Politically Algeria constitutes 3 departments of France. It is ruled by a civilian governor-general, and occupied by the 19th Army Corps (54,000 men). Revenue (1894), £1,931,640; expenditure (excl. army), £2,804,740.

Chief Towns (1891): Algiers, 82,585; Oran, 74,510; Constantine, 46,501; Bona, 30,806.

TUNIS.—The E. coast is low and sterile, the N. coast steep, the interior mountainous; the South a plain, with the Shot el Jerid (57 ft. above the sea). Climate sub-tropical; Tunis, mean temp. 67° (Jan. 52°, Aug. 81°), rain 15 in.

Area and Population: 50,840 sq. m., pop. 1,500,000, incl. of 36,000 Europeans and 45,000 Jews. The Arabs and Berbers (all Mahom.) form bulk of pop.

Industries: 2,300 sq. m. are said to be cultivated. The fisheries (sponges, sepia, sardines, anchovies), mostly carried on by Italians, are of importance. Lead and other minerals are found, but little regarded.

Commerce: Imports, £1,554,000; exports, £1,337,700. Staple exports: Wheat, tan, olive-oil, barley, sponges, wine. Chief trade with France, 63 p.c.; Un. Kingdom and Malta, 12 p.c.; Italy, 11 p.c. Of the tonnage entered 55 p.c. is French. *Railways* (1893): 251 miles.

Government: A French Protectorate since 1881, the French Resident practically ruling the country. Revenue (1894), £924,040; debt, £5,702,000. Local army, 11,340 men, besides French troops.

Towns: Tunis, 135,000; Kairwan, 20,000; Gabes, 10,000.

TRIPOLI.—A Turkish vilayat in N. Africa, includes Tripoli proper, Barka (Benghazi) and Fezzan, and covers 338,470 sq. m. Pop. 1,000,000, mostly Berbers and Arabs. Large tracts of desert, with oases and valleys of great fertility.

Commerce: Imports, £710,000; exports, £750,000. The exports include corn, oil, cattle, wool, halfa, and the products of the Sudan.

Towns: Tripoli, 30,000; Benghazi, 7,000; Murzuk (1,760 ft.), 6,000; Ghadames, 7,000.

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SENEGAMBIA AND GUINEA.

BRITISH POSSESSIONS.—**Gambia**: Crown Colony on the Lower Gambia, 4,120 sq. m., pop. 60,000 (settlement proper, 69 sq. m.; pop. in 1891, 14,266). Impts., £169,530; expts., £185,656. Staple expts.: Ground nuts. Chief trade with Un. Kingd., 32 p.c.; Germany, 23 p.c. Of total tonnage entered 71 p.c. is Brit. Rev. (1893), £14,938; debt, none. *Cap.*—Bathurst.

Sierra Leone: Cr. Col., enclosed within French territories. Area, 4,000 sq. m., pop. 126,800; but incl. protected tribes, 27,730 sq. m., pop. 480,000 (50,000 Christians). Impts., £425,090; expts., £432,240. Staple expts.: Palm kernels, rubber, kola nuts. Chief trade with Un. Kingd., 61 p.c. Of total tonnage entered 76 p.c. Brit. Rev. (1893), £92,769; debt, £50,000. *Cap.*—Freetown, 30,033.

Gold Coast: Cr. Col., extending for 350 m. along the Gulf of Guinea. Area (incl. Ashanti), 52,990 sq. m., pop. 1,800,000 (38,000 Christians). Impts., £660,400; expts., £690,330. Staple expts.: Rubber (29 p.c. of total), palm-oil, gold (£92,800), kernels. Chief trade with Un. Kingd., 73 p.c. Of total tonnage entered 68 p.c. Brit. Rev. (1893), £201,783; debt, none. *Cap.*—Accra, 16,267.

Lagos: Cr. Col. Area, 1,324 sq. m., pop. 100,000; but incl. Yoruba, 21,100 sq. m., pop. 3,000,000. Impts., £640,420; expts., £710,300. Staple expts.: Palm kernels and oil (75 p.c.); a little ivory. Chief trade with Un. Kingd. 50 p.c., and Germany 34 p.c. Of total tonnage entered 75 p.c. is Brit. Rev. (1893), £115,317; debt, none. *Cap.*—Lagos, 32,500.

Niger Coast Protectorate: Includes the whole of the coast from Lagos to the Rio del Rey, excepting the mouth of the Niger. Trade mainly in the hands of the "African Association," of Liverpool. Impts., £734,000; expts., £827,820. Staple expts.: Palm oil and kernels (94 p.c.). Chief trade with Un. Kingd., 66 p.c.

Niger Territories: These, except the "Protectorate," are governed by the "Royal Niger Company" (charter granted in 1886). They are rendered accessible by the Niger and its navigable tributary the Benue, and include the most civilized portion of the Sudan. The boundaries, except towards N.W., defined in treaties with France and Germany. Total area, 375,190 sq. m., pop. 24,300,000, largely Mahom. Impts., £188,570; expts., £360,900. Staple expts.: Rubber, ivory, palm-oil, gums. Rev. (1893), £116,756. Cap.—Asaba; port of entry, Akasa.

The following native States, with whom treaties have been concluded, lie wholly or partly within the British sphere:—**Sokoto**: a Mahom. Fulbe Emp., incl. the vassal state of Adamawa, 253,970 sq. m., pop. 12,910,000 (of which 79,270 sq. m., pop. 1,580,000, is in the German and French spheres). Towns: Wurno (cap.), 15,000; Kano, 35,000; Yakobu, 50,000. **Gando**: a Mahom. Fulbe State, 37,810 sq. m., pop. 2,500,000. **Nupe**: a Mahom. Fulbe State, 31,900 sq. m., pop. 2,300,000. Cap., Bida, 50,000. **Bornu**: a Mahom. Negro State, 68,050 sq. m., pop. 5,250,000 (14,650 sq. m., pop. 950,000, in German sphere). Cap., Kuka, near Lake Tsad, 60,000.

FRENCH POSSESSIONS include (*a*) Senegal, 73,240 sq. m., pop. 1,250,000; (*b*) French Guinea, with Futa Jalon, 39,580 sq. m., pop. 800,000; (*c*) the French Sudan, with Timbuktu, &c., 275,026 sq. m., pop. 4,670,000; (*d*) the Ivory Coast and Kong, 79,550 sq. m., pop. 880,000; (*e*) Dahome, 14,140 sq. m., pop. 600,000. Total—481,530 sq. m., pop. 8,200,000. Only a small portion of this vast region is actually occupied. Impts. by sea, £906,000; expts., £838,000. Home expenditure (1895), £735,340.

PORTUGUESE.—**Guinea**: 14,370 sq. m., pop. 200,000. Impts., £9,450; expts., £8,570. **C. Verde Is.**: 1,486 sq. m., pop. 111,000. Impts., £32,820; expts., £51,200. **St. Thome and St. Principe**: 417 sq. m., pop. 21,000. Impts., £155,000; expts. (coffee, cocoa), £221,200.

SPANISH.—**Fernando Po**: 771 sq. m., pop. 25,000. **Annobom**: 7 sq. m., pop. 3,000. **Corisco**: 6 sq. m., pop. 2,000. **Cape San Juan**: 100 sq. m., pop. 5,000.

GERMAN GUINEA OR TOGOLAND: 19,660 sq. m., pop. 800,000. Impts., £124,000; expts., £166,000. Staple expts.: Palm oil and kernels.

LIBERIA.—A Negro Repub., founded by American philanthropists in 1821. Area, 51,970 sq. m., pop. 1,000,000. Expts. (coffee, palm-oil, and kernels), about £250,000.

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EQUATORIAL AFRICA.

CAMARONS.—A German Protectorate (since 1884), thus named after the Camarones or Shrimp river. It extends 124 miles along the coast, reaches inland to the Upper Benue and Lake Tsad, and covers 193,070 sq. m., with an estim. pop. of 4,570,000. Cocoa and tobacco are cultivated. Imports, £220,210; exports, £235,260. Staple exports: Caoutchouc, palm-oil and kernels, ivory. Climate, on coast, hot and damp (mean temp. 78°, rain 165 in.).

FRENCH CONGO.—A vast territory, reaching from the Atlantic to the Congo River and along its tributary, the Ubangi, to the watershed of the Nile.

Area, to 10° N., 496,920 sq. m., pop. 8,950,000, in addition to which France claims the Mohammedan native states of **Wadai** (105,000 sq. m., pop. 2,600,000), **Bagirmi** (33,800 sq. m., pop. 1,000,000), and **Kanem** (25,650 sq. m., pop. 100,000), as also the islands of Lake Tsad, upon which a steamer is to be placed.

Imports, £114,000; exports, £124,000; only 27 p.c. of the trade is with France.

THE CONGO STATE.—An "Independent" State, created at the Berlin Conference of 1885, and placed under King Leopold of Belgium as "sovereign." It includes the greater portion of the basin of the Congo. Area, 905,990 sq. m., pop. 16,300,000. A railway, 259 m. in length, is building past the Livingstone Falls to Stanley Pool, whence access to several thousand miles of river navigation. Imports, £441,250; exports, £370,030. Staple exports: Ivory (£180,000), caoutchouc, palm-oil and kernels. Chief trade with Belgium (50 p.c.), the Netherlands and Un. Kingdom (16 p.c. each). State Revenue (1894), £136,360; deficit, covered by the King and Belgium, £160,000. Armed force, 4,520 m. *Capital*—Boma.

ANGOLA.—This Portuguese Colony includes a small district (Kabinda) to the North of the Congo, and the districts of Ambriz, Loanda, Benguella and Mossamedes to the South. A coast generally dry and arid, succeeded by a mountain belt of great fertility; the interior mostly broad savannahs, intersected by wooded river valleys. Loanda, mean temp. 82°; Caconda, 5,500 ft. above sea, 68; rainfall resp. 12 and 69 in. Area, 517,700 sq. m., pop. 3,640,000. Imports, £913,000; exports, £68,500. Staple exports: Coffee, rubber, wax. Chief trade with Portugal. Railways, 350 miles. *Capital*—Loanda, 17,000.

GERMAN SOUTH-WEST AFRICA.—The greater part is at most fit for pasturage, but in the hills around Windhoek and in the N. there is also agricultural land, and German settlers have been introduced. The mountains rise to 7,000 ft. Copper, gold, and other minerals have been discovered, and Anglo-German companies formed to raise them. Area: 320,540 sq. m., pop. 200,000, incl. 1,000 whites, 70,000 Hottentots (Namas) and Bushmen, 129,000 Herers.

WALVISCH BAY, with a small district, and several small islands along the coast, belongs to Cape Colony.

ZANZIBAR.—Moham. State, under the Protectorate of Great Britain, now virtually confined to the islands of Zanzibar and Pemba. Area, 960 sq. m., pop. 210,000. Impts., £1,165,500; expts., £955,000. Staple expts.: cloves, ivory, copper. Of the total trade 41 p.c. is with African ports, 23 p.c. with India, 9 p.c. with the Un. Kingd.

BRITISH EAST AFRICA.—Extends along the coast from the Umber R. to the Jubb, and inland to the Upper Nile as far as lat. 10° N. Area, 667,680 sq. m., pop. 6,300,000. The more fertile tracts are close to the coast, on the highlands of Kikuyu, and around the Victoria Nyanza (3,900 ft.). Mengo, in Uganda, has a mean temp. of 71° (June 69°, Oct. 74°), rainfall 48 in. Impts., £109,000; expts., £67,000. A railway to the Lake is to be built, and a steamer is on the way.

PORTUGUESE EAST AFRICA.—The Provinces of Mozambique and Lourenço Marquez were constituted, in 1891, a "State of East Africa," and companies have been chartered to develop the mineral and other resources of the country. Area: 282,750 sq. m., pop. 1,500,000. Impts., £449,000; expts., £222,500. Railways from Delagoa Bay to Pretoria, 347 miles; from the Pungwe above Beira to Chimoio, 118 miles. *Capital*—Mozambique, 7,000.

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EQUATORIAL AFRICA—*continued.*

GERMAN EAST AFRICA.—Extends from the Indian Ocean to Lakes Victoria, Tanganyika, and Nyasa. Most of the interior is a poor savannah country, with fertile tracts in the coast hills and in the extreme N.W. (Karagwe) and S.W. (Nyasa). Tobacco plantations, &c., have been formed, and a railway. Area, 351,040 sq. m., pop. 2,800,000, incl. 750 whites. Imports, £385,740; exports, £270,030. Staple exports: Ivory, caoutchouc, copal. Only 20 p.c. of the trade is with Germany. *Colonial force*, 2,241 men. *Capital*—Dar es Salaam.

BRITISH SOMALILAND.—Extends along the Gulf of Aden, has an area of 67,000 sq. m., and a popul. of 200,000, mostly nomadic. Imports, £229,000; exports, £218,000. Staple exports: skins, ostrich feathers, cattle and sheep, coffee. Chief towns: Berbera 30,000, and Zaila 6,000.

The greater part of Somali and Galla lands lies within the Italian "sphere."

SOKOTRA.—An island off Cape Guardafui, a British Protectorate since 1886. Area, 1,380 sq. m., pop. 10,000. Chief product: aloes.

MADAGASCAR (French).—This is the third largest island in the world; comprises three zones; a fertile coast region, a forest belt, and an interior plateau (3,900 ft.) surmounted by bare granitic peaks (9,660 ft.). Mean temp. of Antananarivo 65°, of Tamatave 75°; rainfall resp. 53 and 128 in. Area: 228,560 sq. m., pop. 3,500,000, nearly all of Malay stock, with a considerable admixture of Negro blood among the Sakalavas. The Hova (800,000) are the dominant race. About 500,000 are Christians. *Natural wealth* is considerable. Coal found in addition to gold, copper, iron and lead. Impts. of Tamatave, £163,400; expts., £134,160. Staple expts.: hides, rubber, wax, cattle. Government: An absolute Monarchy. France, in virtue of a treaty signed in 1885, claims to exercise a Protectorate, which is being enforced by a military expedition. She has settlements on St. Mary Island, in Diego Suarez Bay, and on Nossi Be.

COMORO ISLANDS (French).—A group of islands in the Mozambique Channel, of volcanic origin, with an active volcano on Great Comoro (3,520 ft.). Area, 760 sq. m., pop. 62,000, mostly Moham. Swahilis. Mayotte (162 sq. m., pop. 8,700) is a French Colony, the other islands form a Protectorate. Imports of Mayotte, £24,830; exports (sugar and vanilla), £51,880.

MAURITIUS (British).—An island of volcanic origin in the Indian Ocean, (2,700 ft.). Mean temp. at St. Louis, 77° (Jan. 82°, July 72°); mean rainfall of island, 60 in. Area: 739 sq. m., pop. (1891), 371,655; dec. incr. 2.8 p.c. *Religions:* 209,079 Hindus, 12,745 Christians, 34,763 Moham., 4,000 Buddhists. Imports, £3,095,150; exports, £3,877,300. Staple exports: sugar (88 p.c. of total), rum, aloe fibre, coco-nut oil. Chief trade with Brit. Colonies, 64 p.c.; Un. Kingdom 19 p.c. Of the total tonnage entered 70 p.c. is British. Railways, 104 m. Government, a Crown Colony. Of the 27 members of the Legislative Council only ten are elected. Revenue (1893), £450,218; debt, £1,372,150. *Capital:* St. Louis, 58,669.

The following are Dependencies of Mauritius:

The SEYCHELLES, a group of 29 islands, coral fringed, the largest being Mahé. Area, 102 sq. m., pop. (1891), 16,440, nearly all coloured. Imports, £70,690; exports (coco-nut oil, vanilla, cloves, tortoise-shell), £53,950.

RODRIGUEZ, 42 sq. m., pop. (1892) 2,210. Imports, £6,600; exports, £4,890.

CHAGOS ISLANDS, a group of coral atolls; 42 sq. m., pop. 700; export of coco-nut oil. On Diego Garcia a coal depôt.

CARGADOS, &c., 67 sq. m., pop. 420; AMIRANTES, 32 sq. m., pop. 100; ALDABRA, &c., 42 sq. m., uninhabited.

REUNION (French).—An island in the Indian Ocean, of volcanic origin; 10,070 feet. Area, 760 sq. m., pop. (1892) 171,781, incl. 23,161 Indian Coolies. Imports, £551,090; exports, £660,000, mostly sugar, rum, coffee.

Dependencies: St. Paul, 3 sq. m., New Amsterdam, 25 sq. m., Kerguelen Islands, 1,317 sq. m., all uninhabited.

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SOUTH AFRICA.

CAPE COLONY.—The country rises in terraces to the pastoral upland region of the interior. The loftiest mountain is the Compass Berg, 8,900 ft. The greater part of the Colony suffers from a deficiency of rain, but along part of the South coast and in the East the rainfall is ample, and the vegetation correspondingly luxuriant. Mean temp. at Cape Town 62° (Jan. 69°, July 55°), rainfall 26 in.

Area and Population: 225,690 sq. m., pop. (1891) 1,727,000, incl. of 380,000 Europeans, 752,000 Christians. Decen. incr. 22 p.c. In 1893, 60,000 Europeans and 44,000 native children attended school.

Industries: Live stock (1893), 360,499 horses, 1,969,596 cattle, 16,793,855 sheep; ostrich farming. The mines yield diamonds, copper, coal, gold, &c. About 6 mill. gall. of wine are produced annually.

Commerce: Imports, £9,898,300; exports, £12,164,660. Staple exports: gold (from S.A.R.), £4,045,300; diamonds, £3,967,330; wool, £2,049,700; ostrich feathers, £482,300. Of total trade 88 p.c. with Un. Kingdom, of tonnage entered 91 p.c. is British. Railways (1894), 2,441 miles.

Government: Governor appointed by Crown, responsible Ministry and Legislature of two Houses, both elective. Revenue (1893), £4,971,214; debt, £26,798,878. *Forces*: Mounted Rifles, 817; Volunteers, 5,269.

Chief Towns: Cape Town, 51,251; Kimberley, 28,718; Port Elizabeth, 23,266.

NATAL.—The Colony extends from the Indian Ocean to the summit of the Drakenberg, and thus enjoys a variety of climate. Mean temp. at Durban 59°, rainfall 126 in.

Area and Population: 16,740 sq. m., pop. (1891) 543,913, incl. 46,788 Europeans and 41,142 Indians. Dec. incr. 35 p.c.

Industries: 519,744 ac. under cultivation. Live stock (1893): 65,026 horses, 724,120 cattle, 945,995 sheep, 347,303 goats. About 130,000 tons of coal are raised annually.

Commerce: Imports, £3,114,000; exports, £1,443,830. Staple exports: wool, £642,370; gold, £239,800; sugar, £80,400. Railways (1893) 399 m.

Government: Governor, responsible Ministers, and two Legislative Houses. Revenue (1893), £1,069,678; debt, £7,170,350. *Forces*: 1,588 Volunteers.

Chief Towns: Durban, 25,512; Pieter-Maritzburg, the capital, 17,500.

ZULULAND, a British Protectorate administered by the Governor of Natal, with a resident Commissioner at Eshowe. Area, 9,500 sq. m., pop. (1893) 164,304, incl. 857 whites. Gold is mined; coal and various other minerals are found.

TONGALAND, 2,040 sq. m., pop. 50,000, extends northward to the Portuguese border. A portion only has been declared a Protectorate in 1895.

BASUTOLAND, a British Crown Colony, on the Upper Orange River. Area, 10,290 sq. m., pop. (1891) 218,812, incl. 578 Europeans. Very fertile. Indications of coal, copper, and iron. *Capital*: Maseru, 682.

For continuation see next page.

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SOUTH AFRICA—*continued.*

BECHUANALAND includes a Crown Colony (54,610 sq. m., pop. 1891, 60,376, of whom 5,254 whites), and a Protectorate (117,860 sq. m., pop. 100,000). The country presents itself as a healthy plateau, merging in the W. in the Kalahari Desert, but adapted in the E. for cattle breeding and even agriculture. Diamonds have been discovered. A railway connects Kimberley with Vryburg and Mafeking, and is being continued northward.

MATABELE AND MASHONALANDS (Rhodesia) extend northward to the Zambezi, and are administered by the British South Africa Company, chartered in 1889. Salisbury was founded in 1890, and the power of the Matabele broken in 1893. The rich gold-fields have attracted a considerable European population. Area, 252,880 sq. m., pop. 400,000. Mean temp. of Salisbury, 66° (Jan. 70°, July 57°), rainfall 34 in.

BRITISH CENTRAL AFRICA includes all the British territories to the North of the Zambezi. Area, 285,900 sq. m., pop. 3,000,000. The West is being administered by the British South Africa Company, whilst the East (Nyasaland) is under a commissioner. The capital of the latter is Zomba, but the largest place is Blantyre. Six British steamers navigate the Zambezi and Shire, three Lake Nyasa, one Tanganyika. Imports, £43,000; exports (ivory, coffee, rubber), £25,000.

SOUTH AFRICAN REPUBLIC.—A Boer Republic, recognised by Great Britain in 1852. Area (incl. Swaziland), 127,140 sq. m., pop. 586,000 (150,000 whites, of whom 64,000 are British subjects). The country is favourable to agriculture and stock-breeding, but its great source of wealth is its gold mines (an. export £4,284,600). Coal and silver are also mined. The dutiable imports are valued at £4,440,250. *Railways*, 813 miles open or in progress. *Chief towns:* Pretoria, the capital, 5,050; Johannesburg, 40,215. *Public revenue* (1894), £1,859,580; debt, £9,458,966.

ORANGE FREE STATE.—A Boer Republic, declared independent in 1854. Area, 50,610 sq. m., pop. (1891) 207,503, incl. 77,716 whites. About 250,000 acres are cultivated, and the live stock (1890) included 895,099 cattle, 6,619,992 sheep, 858,155 goats. The staple exports are wool, hides, diamonds (£275,460 an.), and ostrich feathers. *Railways*, 390 miles. *Public revenue* (1894), £342,312; debt, £55,000. *Capital*—Bloemfontein, 5,817.

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NORTH AMERICA.

Position and Extent: North America forms the N. and larger section of the "New World" discovered by Columbus. It is separated from Europe by a sea 930 m. broad, from Asia by Bering Strait, 60 m. Its main mass is triangular in shape, and its outline varied by large peninsulas, broad gulfs and numerous fiords. Development of coast-line 28,130 m., or one mile of coast to every 275 sq. m.

Length, 4,500 m., breadth, 3,100 m. Area, 9,294,330 sq. m., incl. Greenland, 838,000 sq. m., the Arctic Archipelago, 502,440 sq. m., the West Indies, 91,078 sq. m., Newfoundland, 42,730 sq. m. Total area of all islands, 1,564,830 sq. m.

Relief: The *Plateau of the Cordilleras* occupies the West, from the Isthmus of Tehuantepec to the Arctic Ocean. In the centre it broadens out, and enclosed within is a "Great Basin" (228,000 sq. m.) having no outlet to the sea. The highest summits are Mount Logan, 19,540 ft. in the N., Mt. Harvard, 14,370 ft. in the Rocky Mountains, Mt. Whitney, 14,900 ft. in the Sierra Nevada, and the Citlaltepetl or Peak of Orizaba, 17,880 ft. in Mexico. The *Appalachian Highlands* in the East, form the second great mountain system, and are continued to the North of the St. Lawrence in the Laurentides, the Canadian Lake Plateau and the Arctic Highlands. A *Great Central Plain* lies between these mountain regions, extending from the Gulf of Mexico to the Arctic regions. The mean height of the continent is 2,720 ft.

Hydrography: The great rivers of N. America are the Mississippi, which drains 1,240,039 sq. m.; the St. Lawrence, which has for its reservoirs the Great Canadian Lakes (95,060 sq. m.) and drains 532,100 sq. m.; the Saskatchewan, known in its lower course as Nelson, which enters Hudson's Bay (drains 449,830 sq. m.); the Mackenzie, tributary to the Arctic Ocean (drains 679,400 sq. m.).

Climate; Largely determined by the direction of the mountain ranges. Five climatic regions, viz.: an Arctic region, whose mean temperature is less than 32° F.; an Atlantic temperate region, extending as far as the Mississippi, with abundant rains and dense woods; an inland temperate region, dry, with steppes or prairies; a Pacific Coast region; and a tropical region.

Population (estimated for 1895): 97,270,000, being 10.4 to each sq. m.

Races: 72,040,000 Europeans, 11,742,000 Negroes, 12,833,000 American Indians and Eskimos, 455,000 Semites (Jews), 165,000 Mongols (Chinese and Japs), 35,000 Asiatic Aryans (Coolies). Of the Indians, only 400,000 are within the British Dominions and the United States, whilst in Mexico and the other Spanish Republics they constitute the bulk of the population. Of Negroes, as many as 7,984,000 are in the United States and British North America, whilst only 3,758,000 are to be found in the West Indies and elsewhere.

Religions: 96,325,000 Christians; 455,000 Jews; 200,000 Buddhists, &c.; 290,000 Heathens.

Political Divisions: British N. America, 3,769,345 sq. m., pop. 6,581,900; United States, 3,556,280 sq. m., pop. 70,681,800; Spanish, 49,476 sq. m., pop. 2,592,000; Spanish Republics, 973,750 sq. m., pop. 16,054,370; French, 1,162 sq. m., pop. 345,930; Danish, 838,139 sq. m., pop. 45,000; Dutch, 30 sq. m., pop. 9,000; Haiti, 11,070 sq. m., pop. 960,000; (Great Canadian Lakes, 95,060 sq. m.).

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SIBERIA
BERING SEA
ARCTIC OCEAN
Beaufort Sea
Greenland Sea
Lincoln Sea
GREENLAND
Iceland
ALASKA
DOMINION OF CANADA
HUDSON BAY
BAFFIN B.
Baffin Ld.
Labrador
Newfoundland
PACIFIC
Davis Str.
Hudson Str.
Melville Sd.
Banks Ld.
Banks Str.
Parry Is.
Pr. Patrick I.
N. Devon
Boothia
Grant Ld.
Wrangell I.
Pt. Barrow
C. Lisburne
Kotzebue Sd.
Norton Sd.
St. Lawrence I.
Nunivak I.
Aleutian Is.
Bristol B.
Shumagin Is.
Kodiak I.
Cook Inlet
Yukon
Mt. St. Elias
Sitka
Queen Charlotte Is.
Vancouver I.
Victoria
Vancouver
Columbia R.
Portland
Salem
Boisé City
Virginia
Butte C.
Ft. Benton
C. Mendocino
Fraser
Edmonton
Battleford
Calgary
Regina
Pr. Albert
Athabasca L.
Gt. Slave L.
Gt. Bear L.
Ft. Rae
Mackenzie R.
Peace R.
Churchill R.
Churchill
Nelson R.
York
Severn
L. Winnipeg
Winnipeg
Assiniboine
Saskatchewan
Chesterfield Inlet
Gt. Fish R.
Southampton I.
Fox Chan.
Melville Pa.
James B.
Albany R.
Ruperts Ho.
Whale R.
Ft. William
L. Superior
St. Mary
Bismarck
St. Paul
Ottawa
Toronto
Buffalo
Montreal
Quebec
St. Lawrence
G. of St. Lawrence
St. John
Halifax
C. Sable
Sable I.
C. Breton
Cabot Str.
Portland
Boston
C. Cod
St. John
C. Race
Belle Isle Str.
Hamilton Inlet
Rigolet
Hopedale
Nain
Hebron
Frobisher B.
Cumberland Sd.
Godthaab
Julianshaab
C. Farewell
Disko I.
Melville B.
Lancaster Sd.
Hall Ld.
Smith Sd.
160°
140°
120°
100°
80°
70°
60°
50°
40°

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DOMINION OF CANADA.

Physical: Six natural regions—(*a*) Maritime, as far as Quebec; (*b*) Central, up the St. Lawrence, to L. Huron, the most favoured; (*c*) the Laurentian Lake Plateau, to the W. of Hudson Bay; (*d*) the Barren Grounds, in the N.; (*e*) the Great Plain, to the E. of the Rocky Mountains, as far as the Arctic Ocean; (*f*) the Mountain (Cordillera) Region in the West. Mount Logan, 19,540 ft., culminating point of Canada and all N. America. The St. Lawrence, which drains the Canadian Lakes; the Saskatchewan (known as Nelson after it leaves L. Winnipeg) and the Mackenzie are the principal rivers. Most of the country is wooded; tundras occupy the N., a fertile Prairie region (120,000 sq. m.) the centre.

Climate: East of the Rocky Mts. the winter is severe, the summer short but hot, the autumn (Indian summer) delightful. The rainfall decreases as we go inland (Halifax 53 in., Winnipeg 23 in.). The Pacific slope has a maritime climate and heavy rains.

Area and Population: 3,587,770 sq. m. (incl. of all Arctic islands to the W. of Baffin Bay and Smith Sound, 402,440 sq. m.; but excl. of Canadian Lakes); pop. (1891) 5,833,239. Decen. incr. (1881-91) 12 p.c. Of the pop. 86 p.c. are natives of Brit. N. America; 24 p.c. speak French, nearly all in Quebec. There are about 110,000 Indians, 10,000 Chinese, and 22,000 Negroes.

Religion: No State church. R. Cath. 41 p.c.

Education: (1892) 17,057 schools, 999,297 pupils: 24 colleges, 9,000 students.

Industries: Agriculture and lumbering are the chief industries. In 1891 31,100 sq. m. were under crop, 23,882 sq. m. under pasture. Value of forest products, £16,683,750; fishery products, £4,233,200; mining products, £4,059,000, incl. coal, 3,384,000 tons (value £1,577,000); nickel, £582,300; gold, £190,300; petroleum, £189,000; copper, iron, asbestos, silver, &c. The manufactures (1891) employed 367,865 hands.

Communications: Coast-line of 11,400 miles, but owing to ice only the Pacific coast and that outside the Gulf of St. Lawrence are accessible throughout the year. Canals enable steamers of 2,500 tons to reach Duluth at the head of Lake Superior. *Railways* (end 1894) 15,639 (Canadian Pacific 2,906 m.). *Merc. marine*: (1893) 7,010 vessels, 1,054,214 tons (equiv. to 512,185 steam-tons).

Commerce: Imports (incl. treasure), £25,783,974; exports, £22,667,467. Manufactures constitute 54 p.c. of the imports, 2 p.c. of the exports. Staple exports—timber, £3,937,000; cheese, £2,544,000; animals, £2,278,000; wheat, £1,802,000. Chief trade with Un. Kingdom, 43 p.c.; United States, 41 p.c.; British Colonies, 3 p.c.; Germany, 2 p.c.

Government: Federal. The Executive carried on by the Governor-General and his Privy Council (Ministry) in the name of the Queen; the Legislative power exercised by a Parliament of 2 Houses, a Senate (81 members nominated for life) and a House of Commons. Each of the seven 'Provinces' (Nova Scotia, Pr. Edward Island, New Brunswick, Quebec, Ontario, Manitoba, British Columbia) has its separate Parliament, and a Lieut.-Governor appointed by the Governor-General. Federal capital, Ottawa.

Federal Revenue (1893), £7,843,000; debt, £61,655,040. *Provincial Revenues*, £2,378,100; debts, £4,251,900.

Army: Permanent corps, 1,010 men; active militia, 33,960 men; organised reserve, 200,000 men. *Navy*: 5 ocean and 2 river steamers. Imperial garrisons occupy Halifax and Esquimalt.

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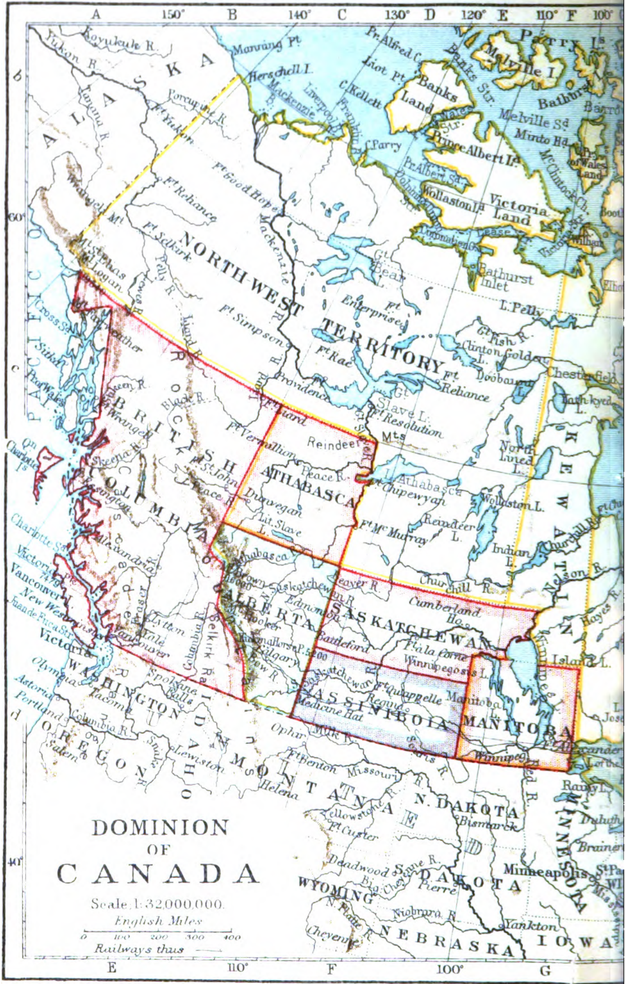

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DOMINION OF CANADA.

NOVA SCOTIA.

Nova Scotia is a peninsula connected with New Brunswick by the low isthmus of Cobequid. Its coasts are bold, with deep fiords and excellent harbours. The interior is hilly (1,100 feet) and rather barren, with the exception of the district at the head of Fundy Bay, known as the "Garden of Acadia."

Climate: Halifax, mean temp. 44° (Jan. 25°, Aug. 64°); rainfall 53 in.

Area and Population: 20,550 sq. m., incl. the dependent Cape Breton Island (3,125 sq. m.); pop. (1891), 450,396, the descendants of French Acadians, English Royalists, and later Scottish immigrants. Decen. incr. 2 p.c. Rom. Catholics 27 p.c.

Industries: Agriculture employs 54 p.c. of pop. Fisheries of great importance, also lumbering and ship-building. Coal (2 mill. tons an.), gold, iron, copper and salt are won.

Towns: Halifax, cap. and naval fortress, 38,556; Dartmouth, 6,249.

PRINCE EDWARD ISLAND.

An island in the S. part of the Gulf of St. Lawrence. Area, 2,000 sq. m., pop. (1891), 109,078, of whom 44 p.c. R. Catholics. *Chief industries*: Agriculture (incl. breeding of horses and cattle) and fishing; 44 p.c. of total area under cultivation. *Capital*, Charlottetown, 11,374.

NEW BRUNSWICK.

N. B. extends from the Gulf of St. Lawrence to the Bay of Fundy. Wooded hills with pastoral valleys for the interior. Of the area only 6 p.c. is cultivated. Coal and iron are mined.

Towns: Fredericton, cap. 6,502; St. John, 39,179; Moncton, 8,765.

NEWFOUNDLAND.

An island at the mouth of the Gulf of St. Lawrence, with rugged coast, for the most part barren. Woods cover 1,700 sq. m. The climate damp. Mean temp. of St. John's 41° (Jan. 24°, July 61°); rainfall 53 in.

Area: 42,730 sq. m., pop. (1891), 197,934. Decen. incr. 10 p.c. R. Cath. 37 p.c. Fishing (cod, seals) chief industry. Coal, copper and lead are won.

Commerce: Imports, £1,504,378; exports, £1,428,965. Staple exports, codfish and copper. Chief trade with the Un. Kingdom (30 p.c.), Canada (24 p.c.), the Un. States (16 p.c.). *Railways*: 350 miles.

Government: Representative. Governor appointed by Crown. Revenue (1893), £365,384; debt, £1,719,906.

Capital: St. John's, 31,142.

LABRADOR, a dependency of Newfoundland, 120,000 sq. m., pop. 4,106, incl. 1,300 Eskimos.

MIQUELON and ST. PIERRE, 92 sq. m., pop. 5,930; a remnant of the former North American possessions of France, which also enjoys fishing rights along the W. and N.E. coasts of Newfoundland.

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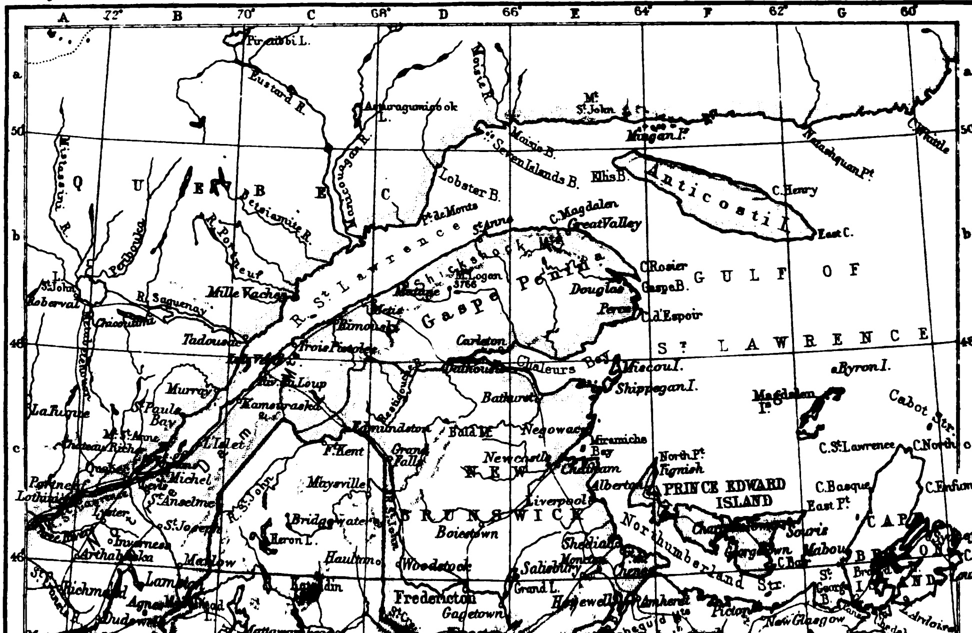
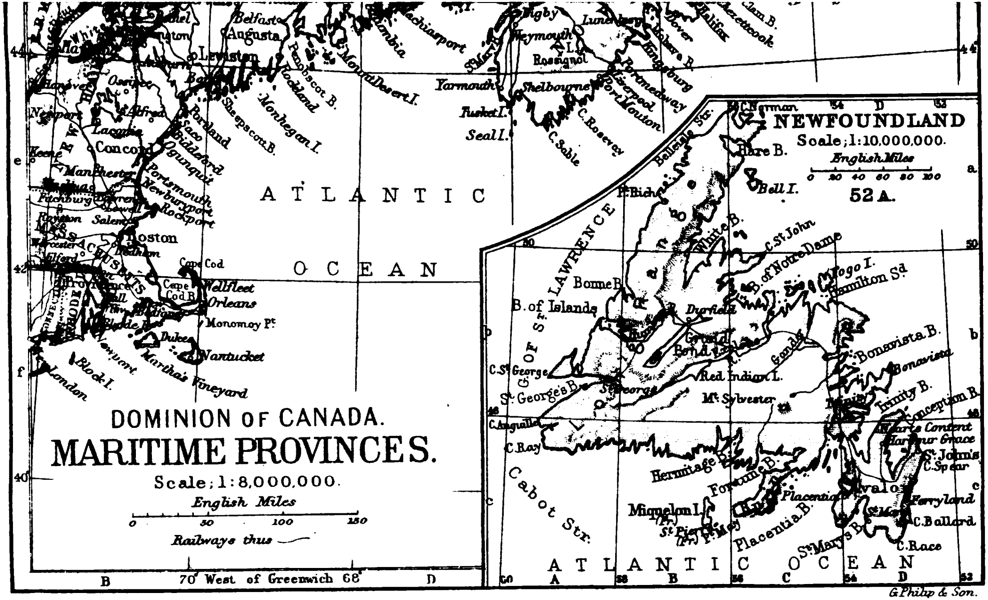

QUEBEC
GULF OF ST LAWRENCE
Anticosti I.
GASPE PENINSULA
NEW BRUNSWICK
PRINCE EDWARD ISLAND
Northumberland Str.
Cabot Str.
R. St Lawrence
Chaleurs Bay
Magdalen Is
Byron I.
Miscou I.
Shippegan I.
East C.
C. Henry
Ellis B.
Seven Islands B.
Moisie B.
Lobster B.
Mingan I.
Natashquan Pt
C. Whittle
Mistassini R.
Peribonka
Betsiamite R.
R. Portneuf
R. Saguenay
Mille Vaches
Tadousac
Trois Pistoles
Rimouski
Matane
Metis
Carleton
Dalhousie
Bathurst
Douglas
C. Rosier
Gaspe B.
C. d'Espoir
Perce
C. Magdalen
Great Valley
St Anne
Mt Logan 3766
Edmundston
Grand Falls
Fredericton
Gagetown
Woodstock
Boiestown
Newcastle
Chatham
Miramichi Bay
Liverpool
Shediac
Moncton
Salisbury
Hopewell
Amherst
Pictou
New Glasgow
Charlottetown
Georgetown
Souris
East Pt
North Pt
Tignish
Alberton
C. Basque
C. St Lawrence
C. North
C. Enfume
C. Breton
Louisburg
Sydney Bay
Mabou
Quebec
Levis
St Joseph
St Anselme
Arthabaska
Inverness
Richmond
Lothiniere
Portneuf
Roberval
St John L.
La Tuque
Murray
St Paul's Bay
Kamouraska
Riv. du Loup
L'Islet
St Michel
Chicoutimi
Mt St John
Heron L.
Bridgewater
Maysville
Ft Kent
Houlton
Grand L.


DOMINION OF CANADA.
MARITIME PROVINCES.
Scale; 1:8,000,000.
English Miles
0 50 100 150
Railways thus
70° West of Greenwich 68°
ATLANTIC OCEAN
NEWFOUNDLAND
Scale; 1:10,000,000.
English Miles
0 20 40 60 80 100
52 A.
GULF OF ST. LAWRENCE
Cabot Str.
ATLANTIC OCEAN
Belfast
Augusta
Lewiston
Portland
Saco
Biddeford
Ogunquit
Portsmouth
Newburyport
Rockport
Boston
Salem
Concord
Laconia
Manchester
Keene
Fitchburg
Cape Cod
Wellfleet
Orleans
Monomoy Pt.
Nantucket
Martha's Vineyard
Newport
Block I.
New London
Penobscot B.
Rockland
Sheepscot B.
Monhegan I.
Mount Desert I.
Yarmouth
Shelbourne
Liverpool
Port Mouton
C. Sable
C. Roseway
Seal I.
Rossignol
Digby
Weymouth
Halifax
Belle Isle Str.
C. Norman
Hare B.
Bell I.
White B.
C. St. John
B. of Notre Dame
Fogo I.
Hamilton Sd.
Bonne B.
B. of Islands
Grand Pond
Red Indian L.
Mt. Sylvester
C. St. George
St. George's B.
C. Anguille
C. Ray
Hermitage B.
Fortune B.
Miquelon I. (Fr.)
St. Pierre (Fr.)
Placentia B.
St. Mary's B.
Bonavista B.
Bonavista
Trinity B.
Conception B.
Harbour Grace
St. John's
C. Spear
Ferryland
C. Ballard
C. Race
G. Philip & Son.

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DOMINION OF CANADA.

QUEBEC.

The Province of Quebec (formerly known as Lower Canada) extends along both sides of the St. Lawrence river. On the S. an offshoot of the Appalachian Highlands extends into Gaspé Peninsula (Mount Logan, 3,766 ft.); in the N. a height of land (Laurentides). That part of the province above Quebec generally level and fertile. Forests cover 97,000 sq. m.

Climate: Quebec, mean temp. 40° (Jan. 12°, July 68°), rainfall 39 in. At Montreal, resp. 44°, 17°, 72°, and 40 in.

Area and Population: 227,500 sq. m., pop. (1891) 1,488,535, of whom 87 p.c. were Roman Catholics, mostly French 'habitans.'

Industries: Lumbering and agriculture are the chief industries. Fisheries of some importance. Iron, copper, gold, phosphate, are mined.

Towns: Montreal, 216,650; Quebec, 63,090; Three Rivers, 8,334.

ONTARIO.

The Province of Ontario (formerly Upper Canada) lies to the north of the St. Lawrence and the Canadian lakes, and includes the most favoured section of the Dominion. The vine, peach, and other fruits flourish in the south; whilst woods still cover the north and west.

Climate: Toronto, mean temp. 44° (Jan. 23°, July 66°), rain 34 in.

Area and Population: 214,310 sq. m., pop. (1891) 2,114,321, of whom 17 p.c. Catholics.

Industries: 12,896 sq. m. under crop; 4,197 sq. m. under pasture. Livestock (1893), 685,167 horses, 2,057,882 cattle, 1,935,938 sheep, 1,012,022 pigs. Yield of mines varied, including nickel, copper, iron, zinc, lead, silver, salt, petroleum, &c.

Towns: Toronto, prov. cap., 181,220; Hamilton (the Birmingham of Canada), 48,980; Ottawa, the Federal capital, 44,154; London, 31,977; Kingston, 19,264.

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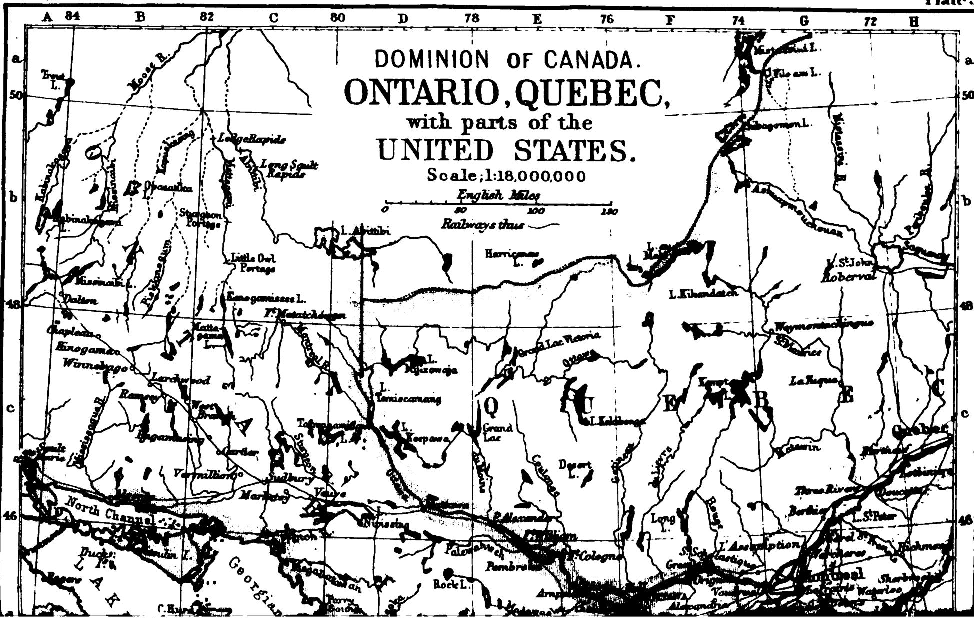

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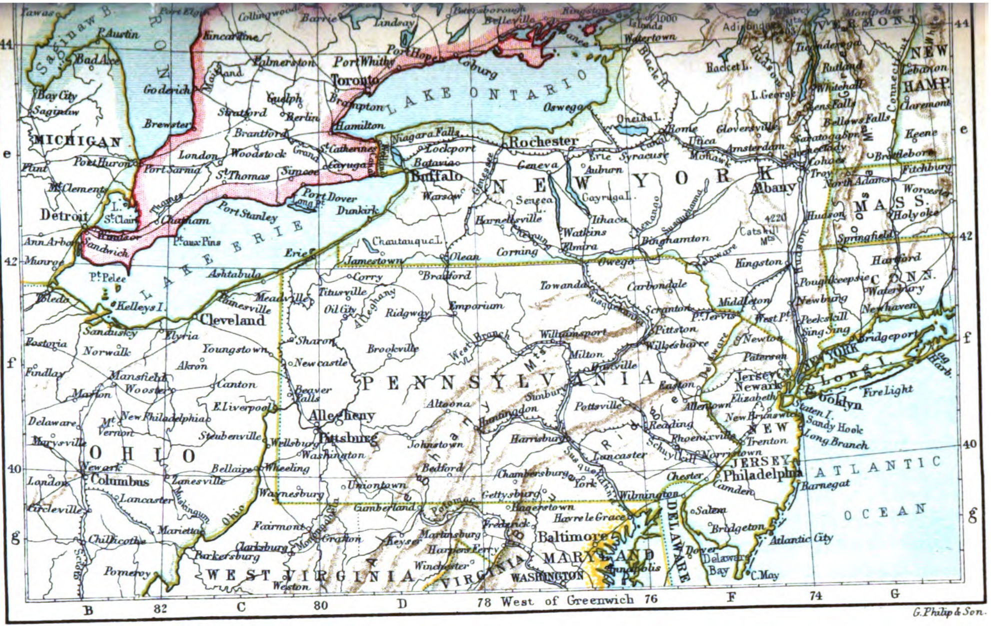

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DOMINION OF CANADA—THE WEST.

MANITOBA.

The most central province of the Dominion, on both banks of the Red River and around the Winnipeg and other lakes; generally level and productive.

Climate: Winnipeg, mean temp. 33° (Feb. 7°, July 66°), rain 23 in.

Industries: Agriculture and stock-raising are the main industries. In 1893 2,515 sq. m. were under crop. Live-stock—88,000 horses, 173,250 cattle, 35,400 sheep, 50,700 pigs.

Towns (1891): Winnipeg, 25,642 (1894, 34,954); Brandon, 5,069; Portage du Prairie, 3,362.

BRITISH COLUMBIA.

The Pacific Province of the Dominion, and one of the most picturesque of the British Empire. It reaches from the Pacific shore to the Rocky Mountains, and includes the Queen Charlotte Isles (10,000 sq. m.), and Vancouver (14,000 sq. m.). The Pacific Slope has a temperate but damp climate (New Westminster, mean temp. 48°, Jan. 35°, July 62°, rain 61 in.), but the uplands, beyond the Cascade Range, drained by the Fraser and Upper Columbia, are dry (rainfall about 15 in.), and admirably suited for agriculture.

Area and Population: 382,300 sq. miles, pop. (1891) 96,173, including 65,266 whites, and 20,367 Rom. Catholics.

Industries: Natural resources most varied, but undeveloped. An. yield of fisheries (seal, salmon), £930,000. Great mineral resources—coal, an. 802,000 tons; gold, an. £162,200; also iron, copper, silver, &c.

Commerce: Imports, £1,190,090; exports, £1,272,700. The Canadian Pacific (Pass over Rocky Mountains 5,372 ft.) joins the Eastern Provinces with Vancouver on the Pacific.

Towns: Victoria, Vancouver Island, the capital, 16,841; Vancouver, on mainland, 13,685; New Westminster, 6,700.

THE TERRITORIES.

The Dominion Territories lying outside the 7 provinces embrace an area of 2,648,970 sq. m., pop. (1891) 99,000.

Three districts within the prairie belt of this vast region have been organised, and are now represented in the Dominion Parliament. They are—Assiniboia (89,540 sq. m), Saskatchewan (107,090 sq. m.), and Alberta (106,100 sq. m.), the last more favoured by nature, at the foot of the Rocky Mountains. The pop. of these districts was 48,382 in 1881, 66,799 in 1891 (decen. incr. 38 p.c.). In 1891 194,773 ac. were under crop. Live-stock—60,639 horses, 231,222 cattle, 64,920 sheep, 16,221 pigs. Coal-bearing area, 65,000 sq. m.; gold and iron also found.

The districts are under a Lieut.-Governor, and have an elected Legislative Assembly. *Capital*, Regina, 1,681.

Other districts delimited are Athabaska (104,500 sq. m.), and Keewatin (282,000 sq. m.), but the bulk is still the domain of trappers, and wandering Indians and Eskimos, as in the old days of the Hudson's Bay Company, or altogether deserted of man.

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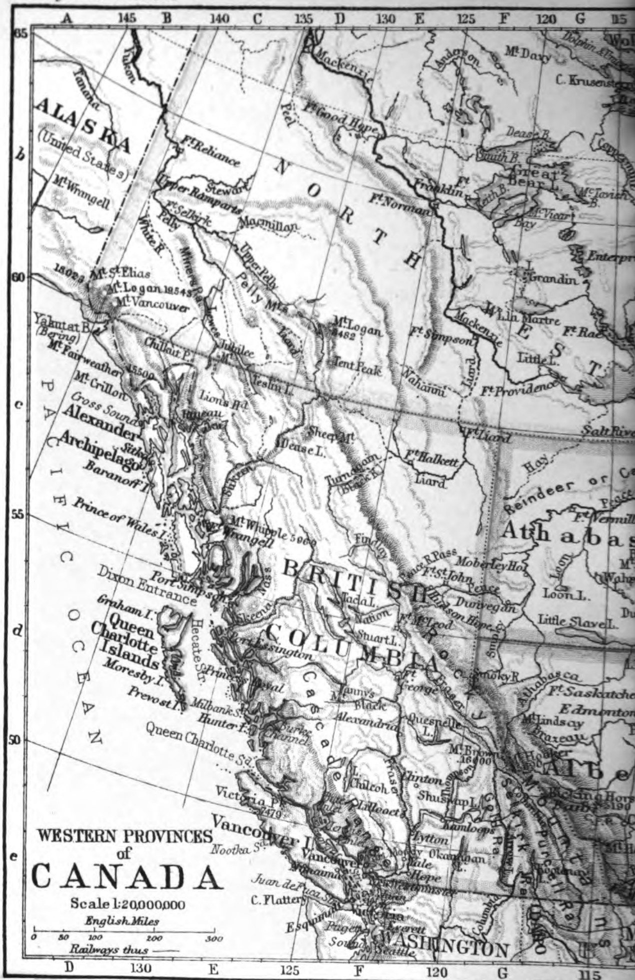

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UNITED STATES.

Physical: The United States occupy the Central and most favoured section of N. America, extending from the Atlantic to the Pacific. Five regions: (*a*) the Atlantic plain; (*b*) the Appalachian system (Black Mts., 6,710 ft.); (*c*) the "Great Central Valley," extending from the Gulf of Mexico up the Mississippi to the Canadian lakes in the North; (*d*) the Cordilleran Region, including the Rocky Mountains (Mt. Harvard, 14,375 ft.), the Great Basin (the Great Salt Lake, 4,200 ft.), and the Sierra Nevada (Mt. Whitney, 14,983 ft.); and (*e*) the Pacific Region. Mean height of the whole country, 2,500 ft.

Climate: The mean temp. of the year at sea-level varies between 38° and 75°, that of January between 7° and 57°, that of July between 64° and 96°. The East coast is colder than the Pacific coast under the same latitude; the climate in the South is sub-tropical. Average rainfall 24 in.; heaviest along the Atlantic and Gulf coasts and on the N. Pacific coast. Philadelphia, mean temp. 53°, Jan. 32°, July 76°; Chicago, resp. 46°, 23° and 70°; New Orleans, 69°, 55° and 82°; San Francisco, 55°, 49° and 60°.

Area and Population: 3,024,880 sq. m.; pop. (1890) 62,950,449, viz., 55,104,259 whites, 7,849,195 coloured. Dec. incr. 25 p.c. (whites 27 p.c., coloured 13 p.c.). An. immigration, 490,400. The coloured included 7,849,195 negroes, 244,681 Indians, 109,514 Chinese and Japanese. Of persons of foreign birth (15 p.c. in all) 30 p.c. were Germans, 20 p.c. Irish, 14 p.c. English and Scotch, 11 p.c. Canadians. *Religion*: No State Church; about 30 p.c. Roman Catholics. *Education*: Schoo s attended by 1,700,000 children. On an average each school is only open 23 weeks throughout the year. Of persons 10 years and over 13 p.c. are il iterate (native whites 6 p.c., foreign whites 13 p.c., negroes 57 p.c.). There are 1,525 colleges, etc., with 360,000 students.

Industries: Of the adult population 44 p.c. are engaged in agriculture, 22 p.c. in industries and mining. *Cultivated area*: 335,451 sq. m., or 11 p.c. (corn, 218,771 sq. m., cotton, 30,570 sq. m., grass and meadows, 77,512 sq. m.); pastures, 1,365,000 sq. m. Live stock (1894) 18,433,370 horses and mules, 53,095,568 cattle, 45,048,017 sheep, 45,206,478 pigs. The *Forests* yield an. 1,100 mill. cubic yards of lumber, valued at £120,000,000. The products of *Mining and Quarrying* are valued at an. £138,960,000. They include coal, 150,501,000 tons; pig-iron, 8,880,000 tons; copper, 138,550 tons; silver, £14,644,000; gold, £6,878,000; besides lead, zinc, quicksilver, petroleum, etc. The Fisheries are of great importance. *Manufactures* are artificially stimulated by protective duties. In 1890, 355,415 establishments employed 4,712,622 hands, and produced goods valued at £195,260,000. The cotton mills employed 221,585 hands, the woollen mills 219,132 hands, the iron and steel works 140,978 hands.

Communications: *Canals*, 4,018 miles; *Railways* (1893) 177,153 miles; *Merc. Marine* (1893) 17,851 v. of 2,953,668 tons (equiv. to 1,953,403 steam-tons). In addition, on lakes and rivers, 4,060 v., 1,347,700 tons (1,135,935 steam-tons), and 2,601 canal boats and barges of 533,602 tons. Of the tonnage entered in the foreign trade only 22 p.c. is American.

Commerce: Imports of merchandise, £163,111,000: exports of dom. produce, £188,6 0,000. Manufactures constitute 40 p.c. of the imports, 7 p.c. of the exports. Staple exports: bread stuffs, £69,409,000; cotton, £45,704,000; provisions, £20,533,000. Staple imports: sugar, £24,625,000; coffee, £20,523,000. Principal trade with Un. Kingdom, 44 p.c.; Germany, 13 p.c.; the West Indies, 10 p.c.; and British N. America, 5 p.c. Imports of treasure, £13,880,000; exports do., £21,990,000.

Government: A Federal Republic of 44 States. Executive power vested in a President, elected for four years; the legislative power in a Congress, consisting of a Senate and a House of Representatives. The six Territories, including Alaska, as well as the Federal District of Colombia, have their governors appointed by the President. *Federal Revenue* (1894), £62,025,000; debt, £340,053,000. State and local revenues, £98,052,000; debts, £236,532,000. *Army*: regular, 27,160 men; organ. militia, 112,190 men. *Navy*: 87 ships (28 ironclads), 12,636 men.

For Alaska, the Statistics for which are not included in above, see Map 58.

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UNITED STATES—Eastern Division.

Population for 1890; the percentage of coloured people in brackets, where it exceeds 1 p.c. The town first named is the capital. See also Maps 52 and 53.

NEW ENGLAND STATES.

Maine: 33,040 sq. m., pop. 661,086. Augusta, 10,527; Portland, 36,425.

New Hampshire: 9,305 sq. m., pop. 376,530. Concord, 17,004; Manchester, 44,126; Nashua, 19,311.

Vermont: 9,565 sq. m., pop. 332,422. Montpelier, 3,617; Burlington, 14,590.

Massachusetts: 8,315 sq. m., pop. 2,238,943. Boston, 448,477; Worcester, 84,655; Lowell, 77,696; Fall River, 74,398; Cambridge, 70,028; Lynn, 55,727; Lawrence, 44,654; Springfield, 44,179; New Bedford, 40,733; Somerville, 40,152; Holyoke, 35,637; Salem, 30,801.

Rhode Island: 1,250 sq. m., pop. 345,505. Providence, 140,568; Pawtucket, 27,633; Woonsocket, 20,830; Lincoln, 20,355.

Connecticut: 4,990 sq. m., pop. 746,258. Hartford, 53,230; New Haven, 87,298; Bridgeport, 48,866; Waterbury, 28,646; Meriden, 21,652.

MIDDLE ATLANTIC STATES.

New York: 49,170 sq. m., pop. 6,003,157. Albany, 94,923; New York, 1,515,301 (1894—1,801,739, incl. suburbs, 2,963,792); Brooklyn, 806,343; Buffalo, 255,664; Rochester, 133,896; Syracuse, 88,143; Troy, 60,956; Utica, 44,007; Bingamton, 35,005; Yonkers, 32,033; Elmira, 30,892; Long Island City, 30,506.

New Jersey: 7,815 sq. m., pop. 1,444,933. Paterson, 78,347; Newark, 181,830; Jersey City, 163,003; Camden, 58,313; Trenton, 57,458; Hoboken, 43,648; Elizabeth City, 37,764.

Pennsylvania: 45,215 sq. m., pop. 5,258,014. Harrisburg, 39,385; Philadelphia, 1,046,964; Pittsburg, 238,617; Allegheny, 105,287; Scranton, 75,215; Reading, 58,661; Erie, 40,634; Wilkesbarre, 37,718; Lancaster, 32,001; Altoona, 30,337.

Delaware: 2,050 sq. m., pop. 168,493 (coloured, 10 p.c.). Dover, 3,061; Wilmington, 61,431.

Maryland: 12,210 sq. m., pop. 1,042,390 (coloured, 13 p.c.). Annapo'is, 7,604; Baltimore, 434,439; Cumberland, 12,729.

District of Columbia: 70 sq. m., pop. 230,392 (coloured, 25 p.c.) Washington (the Federal capital), 188,932; Georgetown, 14,046.

SOUTHERN ATLANTIC STATES.

Virginia: 42,450 sq. m., pop. 1,655,980 (coloured, 32 p.c.). Richmond, 81,388; Norfolk, 34,871; Petersburg, 22,680; Lynchburg, 19,709.

North Carolina: 52,250 sq. m., pop. 1,620,832 (coloured, 27 p.c.). Raleigh, 12,678; Wilmington, 20,056.

South Carolina: 30,570 sq. m., pop. 1,151,149 (coloured, 76 p.c.). Charleston, 54,955; Columbia, 15,353.

Georgia: 59,475 sq. m., pop. 1,837,353 (coloured, 44 p.c.). Atlanta, 65,533; Savannah, 43,189; Augusta, 33,300; Macon, 22,746; Columbus, 17,303.

Florida: 58,680 sq. m.; pop. 391,422 (coloured, 37 p.c.). Tallahassee, 2,934; Key West, 18,080; Jacksonville, 17,201.

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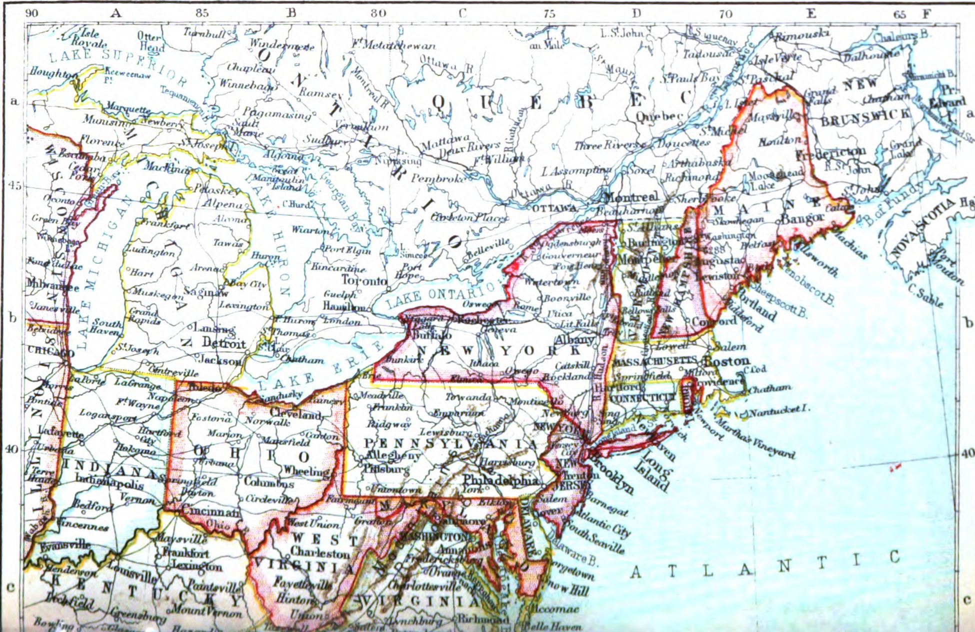

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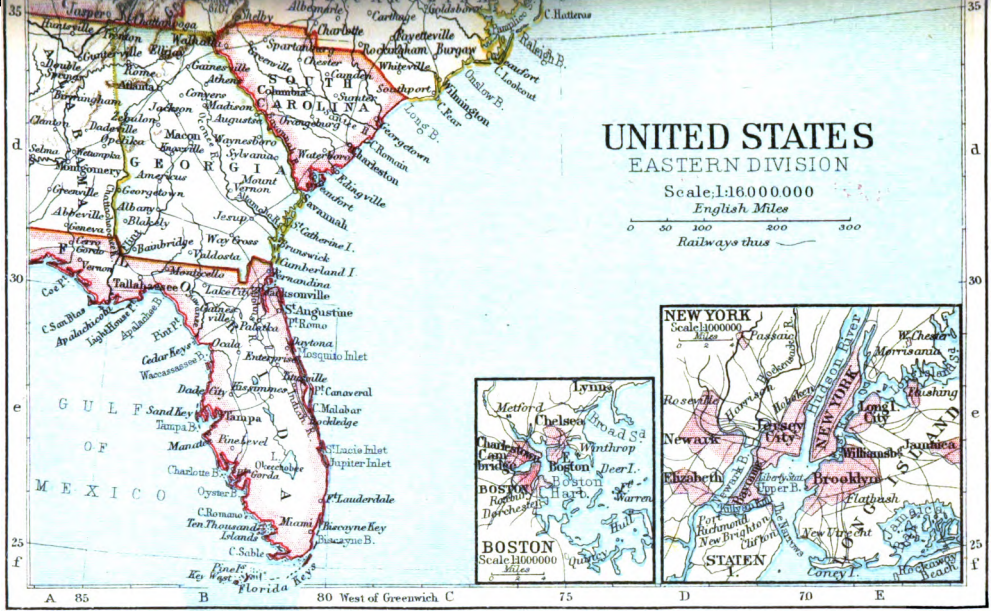

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UNITED STATES—Central Division.

(See Note, Map 56).

NORTH-EASTERN CENTRAL STATES.

West Virginia: 24,780 sq. m., pop. 762,794 (coloured, 2.3 p.c.). Wheeling, 34,522; Huntington, 10,108.

Kentucky: 40,400 sq. m., pop. 1,858,635 (coloured, 8.6 p.c.). Frankfort, 7,892; Louisville, 161,129; Covington, 37,371; Newport, 24,918.

Ohio: 41,060 sq. m., pop. 3,672,316. Columbus, 88,150; Cincinnati, 296,908; Cleveland, 261,353; Toledo, 81,434; Dayton, 61,220.

Indiana: 36,350 sq. m., pop. 2,192,404. Indianapolis, 105,436; Evansville, 50,756; Fort Wayne, 35,393; Terre Haute, 30,217.

Illinois: 56,650 sq. m., pop. 3,826,351. Springfield, 24,963; Chicago, 1,099,850; Peoria, 41,024; Quincy, 31,494; Rockford, 23,584; Joliet, 23,264, Bloomington, 20,484.

Michigan: 58,915 sq. m., pop. 2,093,889. Lansing, 13,103; Detroit, 205,878; Grand Rapids, 60,278; Saginaw, 46,322; Bay City, 27,839.

Wisconsin: 56,040 sq. m., pop. 1,694,795. Madison, 13,426; Milwaukee, 204,468; La Crosse, 25,090; Oshkosh, 22,834; Racine, 21,014.

NORTH-WESTERN CENTRAL STATES.

Minnesota: 83,365 sq. m., pop. 1,308,089. St. Paul, 133,156; Minneapolis, 164,738; Daluth, 33,115.

Iowa: 56,025 sq. m., pop. 1,912,293. Des Moines, 50,093; Sioux City, 37,806; Dubuque, 30,311; Davenport, 26,872.

Missouri: 69,415 sq. m.., pop. 2,679,184 (coloured, 3 p.c.). Jefferson, 6,742; St. Louis, 451,770; Kansas City, 132,716; St. Joseph, 52,324; Springfield, 21,850.

North Dakota: 70,795 sq. m., pop. 190,531. Bismarck, 2,186.

South Dakota: 77,650 sq. m., pop. 347,876. Pierre, 3,235; Yankton, 3,670; Sioux Falls, 10,177.

Nebraska: 77,510 sq. m., pop. 1,062,661. Lincoln, 55,154; Omaha, 140,452.

Kansas: 82,080 sq. m., pop. 1,428,112 (coloured, 1.9 p.c.). Topeka, 31,007; Wichita, 23,853; Leavenworth, 19,768.

SOUTH-EASTERN CENTRAL STATES.

Tennessee: 42,050 sq. m., pop. 1,767,518 (coloured, 16 p.c.). Nashville, 76,168; Memphis, 64,495; Chattanooga, 29,100; Knoxville, 22,535.

Alabama: 52,250 sq. m., pop. 1,513,017 (coloured, 41 p.c.). Montgomery, 21,883; Mobile, 31,076; Birmingham, 26,128.

Mississippi: 46,810 sq. m., pop. 1,289,600 (coloured, 69 p.c.). Jackson, 5,920; Vicksburg, 13,373; Meridian, 10,624; Natchez, 10,101.

SOUTH-WESTERN CENTRAL STATES.

Louisiana: 48,720 sq. m., pop. 1,118,587 (coloured, 51 p.c.) New Orleans, 242,039; Shreveport, 11,979; Baton Rouge, 10,748.

Texas: 265,780 sq. m., pop. 2,235,523 (coloured, 14 p.c.). Austin, 14,575; Dallas, 38,067; San Antonio, 37,673; Galveston, 29,084; Houston, 27,557.

Oklahoma: Territory, 39,030 sq. m., pop. 67,517. Guthrie, 2,788; Oklahoma, 4,151.

Arkansas: 53,850 sq. m., pop. 1,128,179 (coloured, 19 p.c.). Little Rock, 25,874; Fort Smith, 11,311; Pine Bluff, 9,952.

Indian Territory: 31,400 sq. m., pop. 186,490.

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UNITED STATES—Western Division.

See Note, Map 56.

ROCKY MOUNTAIN STATES.

Montana: 146,080 sq. m., pop. 142,495. Helena, 13,834; Butte City, 10,723.

Wyoming: 97,890 sq. m., pop. 62,506. Cheyenne, 11,690; Laramie, 6,388.

Colorado: 163,925 sq. m., pop. 413,183. Denver, 106,713; Puebla, 24,556; Colorado Springs, 11,140; Leadville, 10,384.

New Mexico, territory: 122,580 sq. m., pop. 182,392. Santa Fé, 6,185; Albuquerque, 5,518.

PLATEAU STATES.

Arizona, territory: 113,020 sq. m., pop. 75,034. Phœnix, 3,152; Tucson 5,150.

Utah: 84,970 sq. m., pop. 209,759. Salt Lake City, 44,843; Ogden, 14,889.

Nevada: 110,700 sq. m., pop. 47,313. Carson City, 3,950; Virginia City, 8,511.

Idaho: 84,800 sq. m., pop. 88,025. Boisé City, 2,311.

PACIFIC STATES.

Washington: 69,180 sq. m., pop. 357,328. Olympia, 4,698; Seattle, 42,837; Takoma, 36,006.

Oregon: 96,030 sq. m. pop. 317,475. Salem, 1,800; Portland, 46,385; East Portland, 10,532.

California: 158,360 sq. m., pop. 1,213,150. San Francisco, 298,997; Los Angeles, 50,395; Oakland, 49,682; Sacramento, 26,386.

ALASKA.

A territory of the United States between British N. America and Bering Sea, purchased in 1867 from Russia. Area, 531,400 sq. m., pop. (1890) 31,795, incl. 4,400 whites, 1,650 coloured, 2,125 Chinese.

The Pacific is bounded by bold mountains (Mt. St. Elias, 18,020 ft.), densely wooded, but rearing their heads into the region of perennial snow. There are several active volcanoes. The climate is mild and damp (Sitka, mean temp. 43°, Jan. 30°, July 54°, rain 103 in. on 233 days). The interior, drained by the Yukon, is more level and dry.

Gold, copper, coal, are found, but the chief wealth consists in the seal fishery.

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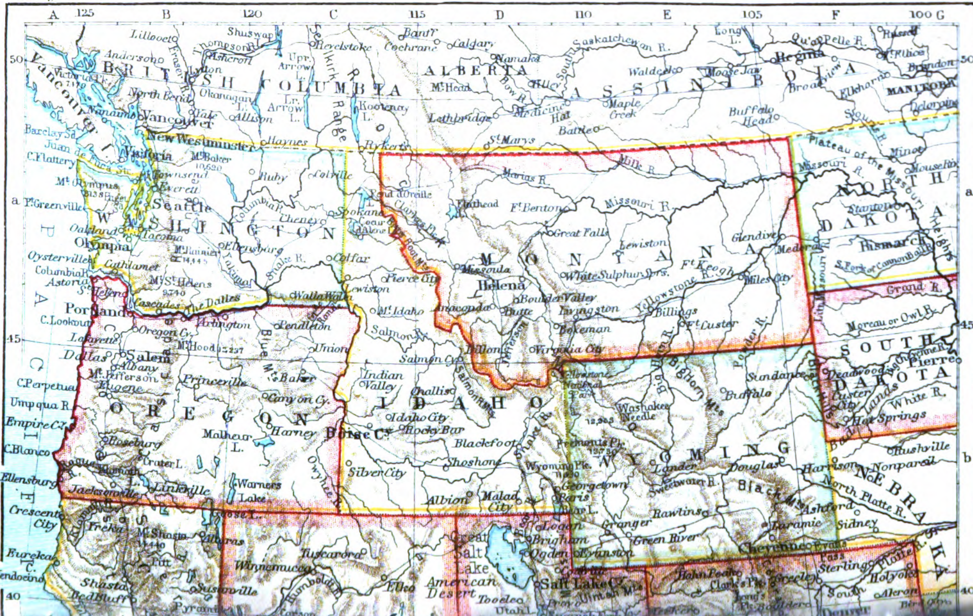
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ASSINIBOIA
MANITOBA
NORTH DAKOTA
SOUTH DAKOTA
WASHINGTON
MONTANA
IDAHO
OREGON
WYOMING
NEBRASKA
Vancouver I.
Seattle
Tacoma
Olympia
Portland
Salem
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Helena
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Butte
Bismarck
Boise Cy.
Salt Lake Cy.
Cheyenne
Great Salt Lake
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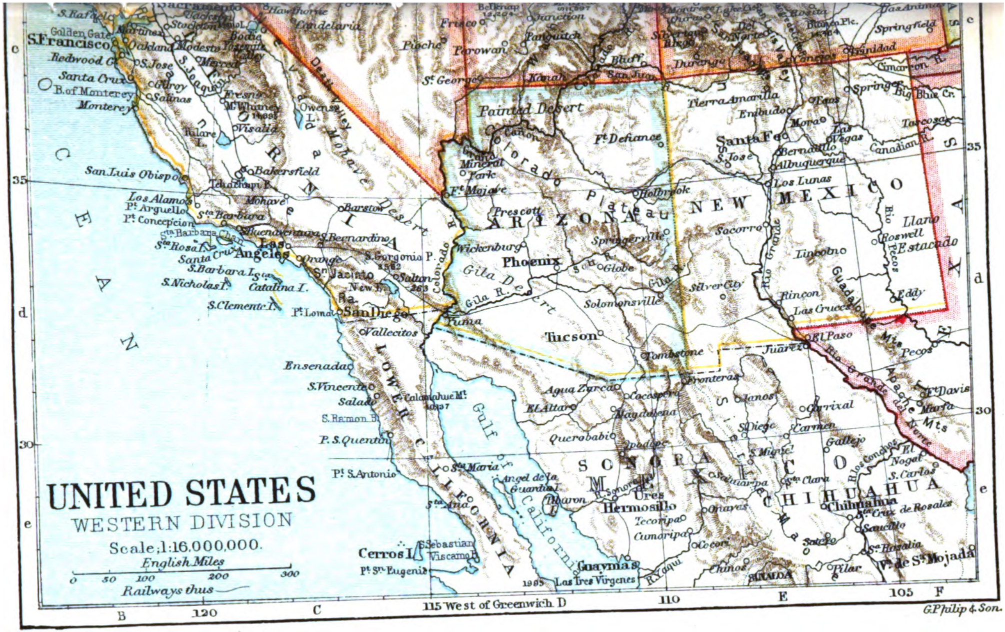

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MEXICO.

Physical: The bulk of country a plateau, separated by the Isthmus of Tehuantepec (680 ft.) from the Central American Cordilleras. Three regions: (*a*) the Tierra Caliente, on the Gulf of Mexico and the Pacific; (*b*) the Tierra Templada, 3,000—6,500 ft., mean temperature 68°; (*c*) the Tierra Fria, or "cold land." The highest mountain is the Peak of Orizaba, or Citlaltepetl (17,880 ft.). Mexico, 7,470 ft., mean temperature 60° (January 54°, May 67°), rain 24 in.; Vera Cruz, respectively 78°, 22°, 82°, and 58 in.

Area and Population: 751,570 sq. m., pop. (1894) 12,080,000, viz., whites of Spanish descent 19 p.c., Indians 38 p.c., mixed 43 p.c.; 10,112 Roman Catholic and 119 Protestant churches. Education backward, and even in capital 59 p.c. illiterates.

Industries: The products include maize, wheat, coffee, cocoa, tobacco, cotton, Sisal hemp, sugar, &c. 3,167 mines, yielding gold (1893) £265,300, silver £7,058,430, lead, copper, iron, coal, &c.

Commerce: Imports, £4,6 6,250; exports (including treasure) £10,424,500. Staple exports: silver £5,033,100, coffee £1,280,810, lead £1,083,100, Sisal hemp £975,100. Principal trade with United States, 69 p.c., and United Kingdom, 15 p.c. *Railways* (1894) 6,900 miles. Merc. marine, 260 vessels (47 steamers).

Government: Federal Republic of 27 States, 2 Territories, and a Federal District. Executive vested in a President, legislative in a Congress of two Houses (Senate and Chamber of Deputies). Federal Revenue (1891-5) £5,450,000, debt £25,000,000. Revenue of States and Municipalities (1890) £4,220,300.

Chief Towns: Mexico, 329,535; Gaudalajara, 95,000; Puebla, 78,530; San Luis Potosi, 62,573; Guanajuato, 52,112; Leon, 47,739.

CENTRAL AMERICA.

Central America extends from the Isthmus of Tehuantepec to the Gulf of Darien. Area, about 310,000 sq. m., pop. 4,500,000. Its narrowest part, at the Isthmus of Panama, is only 40 miles across. Volcanoes are numerous in the Cordilleras, the loftiest, Vo. de Fuego, rising 13,980 feet.

Guatemala: 48,300 sq. m., pop. (1892) 1,510,326, of whom 60 p.c. full-blood Indians. 351,726 ac. under crop (maize, coffee, sugar). Mineral wealth (gold, silver, lead, tin) little developed. *Commerce*: Imports, £961,0:2; exports, £2,292,000; staple export, coffee (84 p.c.). Principal trade with Germany (34 p.c.), Un. States (33 p.c.), Un. Kingdom (15 p.c.). *Railways*, 118 miles. *Revenue* (1893, £1,4[illegible]3,964; debt, £1,780,110. *Capital*, Guatemala, 71,000.

Salvador: 8,140 sq. m., pop. (1892) 780,426, incl. 20,000 whites. Chief crops—coffee, indigo, sugar, and tobacco. Mineral wealth undeveloped. *Commerce*: Imports, £351,140; exports, £1,020,090; staple exports, coffee (65 p.c.), indigo (16 p.c.). Principal trade with Un. States (24 p.c.), Un. Kingdom (18 p.c.). *Railways*, 62 miles. *Revenue* (1893), £1,019,000; debt, £827,300. *Capital*, San Salvador, 20,000.

Honduras: 46,160 sq. m., pop. (1887) 331,917, mostly Indians. Mineral wealth considerable (silver, gold, coal). *Commerce*: Imports (1892), £274,661; exports, £256,685; staple exports, silver (40 p.c.), live-stock (35 p.c.). Chief trade with Un. States (49 p.c.) *Railways*, 37 miles. *Revenue* (1892), £252,734; debt, £5,790,000. *Capital*, Tegucigalpa, 12,000.

Nicaragua: 47,860 sq. m., pop. (1888) 310,000. Products—coffee, bananas, gold, silver. Imports, £560,570; exports, £448,570; staple export, coffee. Principal trade with Un. States (25 p.c.), Un. Kingdom (20 p.c.), Germany (19 p.c.). *Railways*, 93 m.; ship-canal begun. *Revenue* (1892), £[illegible]52,000; debt, £636,000. *Capital*, Managua, 18,000, formerly Leon, 25,000.

Costa Rica: 20,880 sq. m., pop. (1892) 246,000. Imports, £932,100; exports, £1,352,000 (coffee, 87 p.c.) Principal trade with Un. Kingdom (43 p.c.), Un. States (27 p.c.). *Railways*, 161 m. *Revenue* (1893), £685,710; debt, £2,402,000. *Capital*, San José, 10,326.

British Honduras, Crown Colony: 8,292 sq. m., pop. (1891) 31,471. Imports, £224,017; exports (mahogany, logwood, &c.), £252,125. *Capital*, Belize, 5,767.

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THE WEST INDIES.

An archipelago of islands stretching from Yucatan and Florida to the delta of the Ormoco; nearly all mountainous, forest-clad, and rich in tropical produce. Temperature moderated by sea-breezes and the trade-winds. Havana, mean temp. 78° (Jan. 72°, Aug. 82°), rain 46 in.; Trinidad, mean temp. 79° (Feb. 76°, May 79°), rain 67 in.

SPANISH WEST INDIES.

Cuba: 45,880 sq. m., pop. (1887) 1,631,687 (65 p.c. whites). Dec. inc. 7 p.c. Sugar and tobacco are the leading products. Imports (1892), £8,037,902; exports, £12,897,602. *Railways*, 1,000 miles. *Revenue* (1893): £3,491,538; debt, £37,200,000. *Towns*: Havana, 200,418; Santiago, 59,615; Matanzas, 56,379.

Puerto Rico: 3,596 sq. m., pop. (1887) 798,566 (56 p.c. white); dec. incr. 9 p.c. Imports, £1,716,000; exports (coffee, sugar, tobacco), £4,330,000. Principal trade with Spain (39 p.c.). *Towns*: Ponce, 42,358; S. Juan, cap., 26,387.

INDEPENDENT WEST INDIES.

Haiti: Negro-Republic in W. half of island of same name. Area, 11,070 sq. m.; pop. 960,000. Imports, £3,127,000; exports (coffee, logwood, cocoa, cotton), £2,658,000. *Public Rev.* (1892): £1,555,000; debt, £3,520,000. *Cap.*, Port-au-Prince, 60,000.

Dominican Republic, in E. half of Haiti; area, 18,760 sq. m.; pop. 417,000. Imports, £397,000; exports, £506,000. Chief products: Coffee, cocoa and sugar.

BRITISH WEST INDIES.

Total area, 12,288 sq. m.; pop. (1891) 1,357,134; dec. incr. 11 p.c. Imports, £6,420,288 (44 p.c. from Un. Kingdom, 30 p.c. from Un. States); exports, £6,280,364 (30 p.c. to Un. Kingd., 46 p.c. to Un. States). Staple exports: Raw sugar (an. 131,480 tons), coffee, cocoa, rum, pineapples, lime-juice, arrowroot, &c. Of 7,922,557 tons entered and cleared (1893) 81 p.c. were British. Combined revenues (1893): £1,883,403; col. debts, £2,867,253.

Bahamas: Group of coral islands, 4,466 sq. m., pop. (1891) 47,565. Sponge-fishery, cultivation of pineapples, sisal hemp. *Cap.*—Nassau, 11,000.

Turk's Islands: 166 sq. m., pop. (1891) 4,744. Salt raking.

Jamaica: 4,193 sq. m., pop. (1891) 639,491, incl. 14,696 whites. Cultiv. (1893) 1,058 sq. m. Imports, £1,953,055 (52 p.c. from Un. Kingd.); exports, £1,852,530 (54 p.c. to Un. States). Staple exports: Logwood, coffee, sugar. *Railways* 120 m. *Capital*—Kingston, 46,542.

Caymans, a dependency of Jamaica, 225 sq. m., pop. 4,322. Exports: Coco-nuts, turtles.

Leeward Isles: 700 sq. m., pop. (1891) 127,603, incl. 5,070 whites. Imports, £447,300; exports, £510,300. Islands: Virgin Is., 57 sq. m., pop. 4,639; Anguilla, 35 sq. m., pop. 3,699; St. Christopher (Kitts), 65 sq. m., pop 30,876; Nevis, 50 sq. m., pop. 13,087; Antigua and Barbuda, 170 sq. m., pop. 36,699; Montserrat, 32 sq. m., pop. 11,762; Dominica, 291 sq. m., pop. 25,841. *Cap.*—St. John, Antigua, 9,738.

Windward Isles: 670 sq. m., pop. (1891) 319,350. Imports, £1,627,700; exports, £1,525,700. Islands: St. Lucia, 238 sq. m., pop. 42,220; St. Vincent, 133 sq. m., pop. 41,054; Grenada, 133 sq. m., pop. 53,209; Barbados, 166 sq. m., pop. 182,867. *Cap.*—Bridgetown, Barbados, 21,000.

Trinidad: 1,757 sq. m., pop. (1891) 200,028. Under crop, 303 sq. m. Princ. products: Sugar, cocoa, coffee, coco-nuts, asphalt (90,000 tons exported (1893) and coal. Imports, £2,152,354; exports, £2,212,549. Chief trade with United Kingd., 36 p.c.; Un. States, 28 p.c. *Capital*—Port of Spain, 34,037.

Tobago: 114 sq. m., pop. 18,353. Imports, £19,200; exports, £21,130.

FRENCH WEST INDIES.

Guadeloupe: 687 sq. m., pop. (1889) 165,899. Imports, £874,100; exports (sugar), £730,680.

Martinique: 382 sq. m., pop. (1889) 175,863. Imports, 1,278,420; exports (sugar), £923,780. Railways, 121 miles.

DANISH WEST INDIES: St. Thomas, Sta. Cruz (St. Croix) and St. John, 139 sq. m., pop. (1890) 32,786.

DUTCH WEST INDIES: Venezuelan Islands (Curaçao, &c.), St. Martin, &c., 436 sq. m., pop. (1892) 47,274.

For Central America see Map No. 59.

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SOUTH AMERICA.

Position and Extent: South America forms the S. half of the New World. In shape triangular, it extends 4,550 m. from N to S., 3,200 m. from E. to W. Its coast-line is far less broken than that of N. America, and there are fewer islands. Development of coast-line 15,700 m., or one mile to every 431 sq. m. of mainland. Total area, 6,817,390 sq. m., of which islands comprise 51,321 sq. m.

Relief: The Cordilleras de los Andes extend close to the Pacific, from Southern extremity of the continent as far as the Caribbean Sea, and send a branch eastward into Venezuela. Their parallel ranges enclose several plateaus, among which that of Bolivia (with L. Titicaca, 12,540 ft.) is the most extensive. The loftiest summits are: Aconcagua, 22,800 ft.; Illampu or Peak of Sorata, 21,470 ft.; Chimborazo, 20,600 ft.

Isolated mountain regions are the Sierra Nevada de Sta. Marta, on the Caribbean Sea, 16,700 ft.; the Highlands of Guayana (Roraima, 8,500 ft.), and the Brazilian Highlands (Itatiala, 8,900 ft.).

Vast lowland plains, covering altogether nearly 70 p.c. of the total area, lie between these mountains, and open out upon the Atlantic. These plains include the Llanos or steppe-lands of the Orinoco, the Selvas or forests of the Amazon River, and the plains of the Rio de la Plata.

Mean elevation of the continent, 2,490 ft.

Hydrography: Nearly the whole drainage is towards the Atlantic. The three great rivers are the Orinoco (drains 328,000 sq. m.), the Amazon (drains 2,700,000 sq. m.), and the Rio de la Plata (drains 1,240,000 sq. m.).

Climate: The Andes form a sharp climatic boundary, and whilst the rainfall is generally abundant to the East of them, it is deficient or fails altogether on the Pacific coast, from lat. 4° S. to 30° S.

Population (estimated for 1895): 39,153,000, or 6 to a sq. m.

Races: 11,054,000 Europeans, 18,080,000 American Indians, 9,841,000 Negroes, 112,000 Asiatic Aryans (Coolies), 12,000 Semites (Jews and Arabs), 50,000 Mongols (Chinese), 4,000 Malays.

Religions: 37,266,000 Christians, 6,000 Mohammedans, 8,000 Jews, 130,000 Buddhists, &c., 1,743,000 Heathen.

Political Divisions: British S. America, 95,244 sq. m., pop. 504,000; French, 30,460 sq. m., pop. 30,000; Dutch, 49,456 sq. m., pop. 114,000; Brazil (Portuguese), 3,190,000 sq. m., pop. 16,500,000; Spanish Daughter States, 3,452,230 sq. m., pop. 22,005,000.

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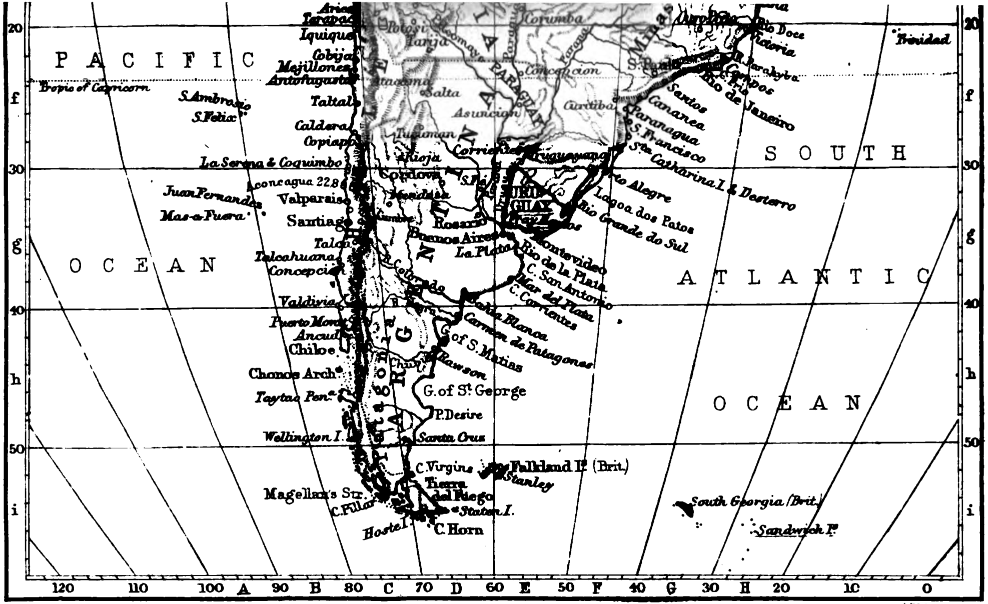
SOUTH AMERICA
Scale 1:60,000,000
English Miles
0
500
1000
GULF OF MEXICO
CARIBBEAN SEA
NORTH ATLANTIC OCEAN
Florida
Havana
Cuba (Sp.)
Nassau
Bahamas (Brit.)
Watling I.
Caicos (Brit.)
Tropic of Cancer
Jamaica (Brit.)
Haiti
P. au Prince
Puerto Rico (Sp.)
Virgin Is (Brit.)
St Thomas (Dan.)
St Martin (Fr. & Du.)
Antigua (Brit.)
Guadeloupe (Fr.)
Dominica (Brit.)
Martinique (Fr.)
St Lucia (Br.)
St Vincent (Brit.)
Barbados (Br.)
Grenada (Brit.)
Tobago (Br.)
Trinidad (Br.)
Campêche
MEXICO
Belize (Brit.)
Trujillo
Honduras
S. Salvador
Nicaragua
Managua
S. Juan
Limon
Colon
CostaRica
S. José
Panama
Cocos I.
G. of Panama
Sabanilla
Cartagena
Sa de Sta Marta 16,700
Paraguana Pa
Curaçao (Du.)
P. Cabello
La Guaira
Maracaibo
Caracas
VENEZUELA
Bolivar
R. Orinoco
Guayana
R. Essequibo
Georgetown
R. Corentyne
Paramaribo
R. Surinam
R. Maroni
Cayenne
R. Oyapock
Guiana
Brit.
Dutch
Fr.
Medellin
Bogotá
COLOMBIA
Popayan
Pasto
Quito
Galapagos
Chimborazo, 20,520
ECUADOR
Guayaquil
Pta Pariña
Payta
Lobos Is
Lambayaque
Trujillo
Chimbote
Callao
Orinoco
R. Parima
Cassiquiare
Isabel
Rio Negro
R. Yapura
R. Napo
Loreto
Marañon
Tefé
Tabatinga
R. Yavary
R. Jurua
R. Purus
R. Madeira
Borba
Manãos
Obidos
R. Tapajos
Santarem
Maraça I.
R. Amazon
Marajo I.
Rio Para
Para
Viana
Maranhão
Paranahyba
Ceara
Aracaty
Fernando do Noronha
C. San Roque
Natal
Parahyba
Pernambuco
Maceió
Alagoas
Penedo
Therezina
Oeiras
Araguaye
Tocantins
P. Imperial
Barra
BRAZIL


PACIFIC OCEAN
SOUTH ATLANTIC OCEAN
Tropic of Capricorn
Iquique
Cobija
Mejillones
Antofagasta
Taltal
Caldera
Copiapo
La Serena & Coquimbo
Aconcagua 22.8
Valparaiso
Santiago
Talcahuana
Concepcion
Valdivia
Puerto Mont
Ancud
Chiloe
Chonos Arch.
Taytao Pen.a
Wellington I.
Magellan's Str.
C. Pillar
Hoste I.
C. Horn
Staten I.
Tierra del Fuego
C. Virgins
Falkland Is. (Brit.)
Stanley
Santa Cruz
P. Desire
G. of St. George
Rawson
G. of S. Matias
Carmen de Patagones
Bahia Blanca
C. Corrientes
Mar del Plata
C. San Antonio
Rio de la Plata
Montevideo
La Plata
Buenos Aires
Rosario
Rio Grande do Sul
Logoa dos Patos
Porto Alegre
Sta. Catharina I. & Desterro
S. Francisco
Paranagua
Cananea
Santos
Rio de Janeiro
Campos
C. Frio
R. Parahyba
Victoria
Rio Doce
Corumba
Concepcion
Asuncion
Curitiba
Salta
Tucuman
Rioja
Cordova
Mendoza
Potosi
Tarija
PARAGUAY
S. Ambrosio
S. Felix
Juan Fernandez
Mas-a-Fuera
Trinidad
South Georgia (Brit.)
Sandwich Is.
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20 f 30 g 40 h 50 i
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BRAZIL.

Physical: Three regions—(*a*) The Brazilian Highlands in the S.W., rising boldly from the coast, and culminating in the Itatiayu, 8,200 ft. The western slopes well wooded; in the interior extensive 'Campos.' (*b*) The 'Selvas' or forests of the Amazonas, in the N.W. (*c*) The lowlands on the Upper Paraguay and the uplands region of Matto Grosso in the W.

Climate: Only S. Brazil outside the tropics. Rio de Janeiro, mean temp. 74° (Jan. 80°, July 69°), rain 45 in.; São Paulo, 2,400 ft., mean temp. 64° (Jan. 71°, July 57°), rain 55 in.

Area and Population: 3,190,000 sq. m., pop. (estim.) 16,500,000, including 6,000,000 whites, 3,000,000 negroes, 1,000,000 Indians, and the rest mixed. *Religion*: Rom. Catholic. *Education*: Free and compulsory, but in 1881 84 p.c. illiterate.

Industries: Mainly agriculture. Coffee (480,000 tons), sugar, cocoa, tobacco, cotton, rubber, Brazil-nuts, among chief products. Cattle-rearing important in south. Mineral wealth considerable (gold, diamonds, iron), but little developed. Manufactures in their infancy.

Communications: Railways (1893), 10,466 miles; mercantile marine, 553 v., 196,981 tons (179,762 steam-tons). The Amazon and other vast navigable rivers.

Commerce: Imports, £10,315,000; exports, £11,658,300. Staple export, coffee. Principal trade with Un. States (36 p.c.), Un. Kingdom (22 p.c.)

Government: A Federal Republic of 20 states and 1 Federal district. Legislative powers exercised by a President, a Senate, and a Chamber of Deputies. Federal revenue (1894), £8,398,000; debt, £80,250,000. *Army*: 32,000 men. *Navy*: 28 ships (11 ironclads).

Chief Towns (1890): Rio de Janeiro, 422,756; Bahia, 200,000; Pernambuco, or Recife, 190,000; São Paulo, 100,000; Pará, 65,000; Porto Alegre, 55,000.

GUAYANA (GUIANA).

A region named after the Guayano Indians; extends from the Orinoco to the Amazonas. For ages a land of myths (El Dorado). Coast tract low, interior hilly (Roraima, 8,500 ft.) and luxuriantly wooded. Climate tropical. Georgetown, mean temp. 80° (Jan. 78°, Oct 81°), rain 96 in.

Politically the region is divided between Venezuela, Brazil, Britain, Holland, and France.

British Guayana includes the counties of Demerara, Essequibo, and Berbice. Area, 88,650 sq. m.; pop. (1891) 278,328, incl. of 109 179 Indian and Chinese coolies. Leading products: Sugar and gold (an. £460,000). Imports (incl. treasure), £1,802,933; exports, £2,441,562; chief trade with Un. Kingd (52 p.c.) *Capital*—Georgetown, 53,176.

Dutch Guayana, or Surinam, 49,850 sq. m.; pop. 75,000. Sugar, cocoa and gold (an. £124,000) chief products. Imports, £457,700; exports, £336,610. *Capital*—Paramaribo, 29,131.

French Guayana, or Cayenne, 30,460 sq. m.; pop. 30,000. A penal colony. Gold, produce 1891, £206,720. Imports, £378,140; exports, £182,420. *Capital*—Cayenne, 10,000.

PARAGUAY.

Paraguay includes the fertile country bounded by the Rivers Paraguay and Parana, and the northern part of the steppe-like Gran Chaco. Highest point, 2,280 ft.

Area and Population: 97,720 sq. m., pop. 480,000, incl. 7,500 Europeans and 100,000 uncivilised Indians. Immigration, an. 910.

Commerce: Imports, £434,000; exports, £415,500. Staple exports: Paraguay tea 42 p.c., tobacco, hides.

Government: Republican. Revenue (1893), £96,265; debt, £5,570,000. *Army*: 1,420 men. *Capital*—Asuncion (1886), 24,838.

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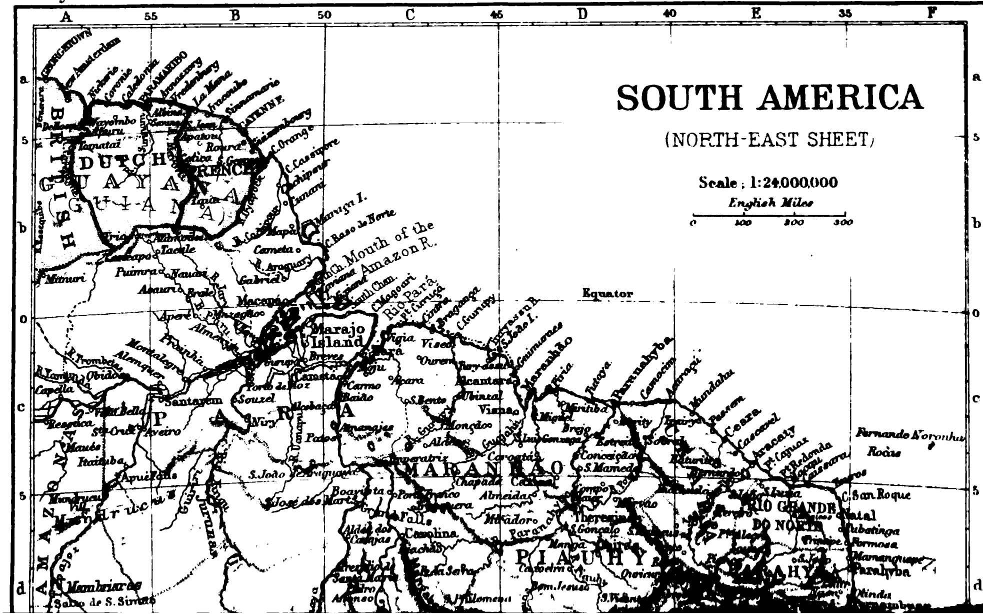

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BRAZIL
BAHIA
GOYAZ
MATTO GROSSO
MINAS GERAES
SÃO PAULO
PARANÁ
SANTA CATHERINA
RIO DE JANEIRO
ESPIRITO SANTO
PARAGUAY
BOLIVIA
SANTA CRUZ
CHUQUISACA
TARIJA
ARGENTINA
CHACO
FORMOSA
CORRIENTES
ATLANTIC OCEAN
Plateau of Matto Grosso
Tropic of Capricorn
Bahia
Bahia de Todos os Santos
Cachoeira
S. Amaro
Marahú
Ilhéos
Belmonte
Porto Seguro
Trancoso
Prado
Caravellas
S. José de Porto Alegre
S. Matheus
Barra do Rio Doce
Regencia
Victoria
Guarapárim
Itapemirim
Mt. Babu 3542
Campos
C.S. Thomé
Macahe
C. Frio
Nictheroy
Ilha Grande I.
Santos
S. Sebastião
Cananea
Paranagua
S. Francisco
Porto Bello
Desterro
Ouro Preto
Sabará
Diamantina
Philadelphia
Minas Novas
Barbacena
Campanha
Pouso Alegre
Caldas
Uberaba
Patrocinio
Prata
Catalão
Goyaz
Rio Claro
Cuyabá
Corumbá
Albuquerque
Miranda
Porto Velho
Diamantino
Rosario
Villa de Salvador
Concepcion
ASUNCION
Villa Rica
S. Pedro
Itapura
S. Paulo
Curityba
Palmeiras
Ponta Grossa
Chapeco
Salto Guaira
R. Paraná
R. Tieté
R. Paranahyba
R. S. Lourenço
R. S. Francisco
R. Grande
R. Correntes
R. Mortes
R. Arinos
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SOUTH AMERICA—North-West.

VENEZUELA.—Three zones: Mts. (agric.) in N. (Cordillera of Mérida, 15,400 ft.); Llanos (pastoral) in the valley of the Orinoco; Primeval Forests in South. Caracas, 3,040 ft., mean temp. 71° (Jan. 69°, May 74°), rain 31 in.

Area and Population: 378,800 sq. m.; pop. (1891) 2,323,527, mostly Indians. Dec. incr., 14 p.c. *Religion*: R. Catholic. *Education*: Free and compulsory.

Commerce and Industries: Agric. and cattle-breeding chief industries (1888: 8,476,300 cattle, 5,727,500 sheep). Mineral wealth considerable; gold (an. value, £246,000), silver, copper, coal. Imp., £3,299,720; exp., £3,795,000 (coffee 78 p.c.)

Government: Fed. Republic. Fed. rev., £1,484,800; debt, £5,441,310.

Towns: Caracas, capital, 72,429; Valencia, 28,654; Maracaibo, 34,284.

COLOMBIA.—Extends from the Caribbean Sea to the Pacific, including the Isthmus of Panama, with its unfinished canal. Three chains of the Cordileras (Vo. de Tolima, 18,320) and the isolated S. Nevada de Sta. Marta (16,700 ft.) occupy the W.; broad plains, sloping to the Orinoco and Amazonas, the E. *Climate*. Bogota, 8,700 ft., mean temp. 57° (August 56°, March 59°); rain 74 in.

Area and Population: 488,500 sq. m., population (1881) 3,878,600.

Commerce: Great mineral riches; gold, silver, copper, platinum, iron, coal. Chief exp., coffee and precious metals. Imp., £840,100; exp., £1,159,200. Principal trade with Un. Kingd., 38 p.c., and Un. States, 23 p.c. Railways, 218 miles; merc. marine, 7 vessels, 2,520 tons. Of tonnage entered 53 p.c. British.

Government: Republican. Revenue (1895), £1,637,700; debt, £5,502,000. Army, 5,500 men.

Towns: Bogota, capital, 120,000; Medellin, 40,000.

ECUADOR.—The central and most populous portion consists of a series of basins, buttressed by the Cordilleras, and elevated 6,900—9,500 ft. above the sea. Highest summit: Chimborazo, 20,600 ft. Climate in these highlands a "perpetual spring." Quito, 9,450 feet, mean temp. 56° (Jan. 56°, July 55°); rainfall 43 in.

Area and Population: 118,630 sq. m., pop. 1,400,000 (100,000 pure whites).

Commerce: Imp., £1,200,600; exp., £1,454,000. Staple exp.: Cocoa. Chief trade with France, 31 p.c., and Un. Kingd., 19 p.c. Railways: 63 miles.

Government: Republican. Revenue, £480,800; debt, £972,000. *Army*, 3,340 men; *navy*, 5 vessels.

Chief Towns: Quito, 80,000; Guayaquil, 51,000.

PERU.—Peru includes an arid coast-region; a series of steppe-plateaus or Punas, enclosed by ranges of the Cordilleras (Titicaca Lake, 12,540 ft.) and the Cinchona forest-region on the E. slope of the Cordilleras. Highest summit: Sorata, 21,490. The Marañon (Upper Amazonas) is the principal river.

Area and Population: 439,000 sq. m., pop. (1876) 2,972,000, of whom only about 13 p.c. pure whites. Religion: R. Cath.; 5,100 Prot., 51,900 (?) Buddhists.

Commerce and Industries: Sugar, cotton, &c., cultivated. Mineral products: Gold, silver, copper, lead, coal, petroleum. Imports: £1,695,000; exports, £1,917,000. Principal trade with Un. Kingdom, 46 p.c.; and Germany, 15 p.c. Merc. marine, 40 v., 12,407 tons; railways, 931 miles.

Government: Republican. Revenue (1894), £751,915; debt, £34,732,000. *Army*, 6,300 men; *navy*, 10 steamers.

Chief Towns: Lima, 104,000; Callao, 35,000; Arequipo, 30,000; Cuzco, 22,000.

BOLIVIA.—Since 1884, deprived by Chile of its littoral, Bolivia now includes a lofty plateau (Titicaca Lake, 12,540 ft.), and the lowlands, partly wooded, partly steppe, to the E. of the Cordilleras.

Area and Population: 515,150 sq. m., pop. 2,270,000, (100,000 pure whites).

Industries and Commerce: Agriculture and mining (silver-mines of Potosi, an. 12 million oz.; gold, copper, tin, &c.). Coca and quinine are among the most valued products. Imp., £1,456,000; exp., £2,970,000. Railways, 500 miles.

Government: Republican. Revenue, £730,000; debt, £824,000. Army, 1,250 men, mostly officers.

Towns: Sucre (capital), 25,000; La Paz, 56,000; Cochabamba, 27,000.

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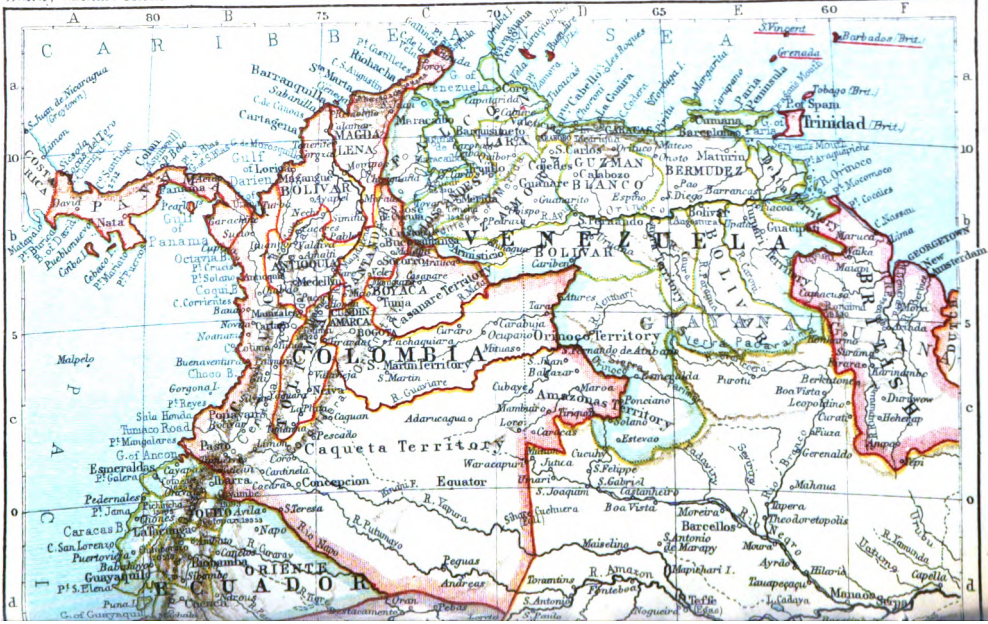

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SOUTH AMERICA—SOUTH SHEET.

CHILE.

Chile includes the Pacific slope of the Cordilleras, and extends for 2,750 miles along the Pacific. Highest summit, Aconcagua, 12,800 feet; Cumbre Railway Pass, 12,800 feet. *Climate*: In N. dry and arid; in S. heavy rains, dense forests. Santiago, 1,700 ft., mean temp. 56° (Jan. 74°, July 49°), rainfall 13 in.

Area and Population: 299,620 sq. m., pop. (estim.) 3,365,000, incl. 500,000 pure whites. *Education*—Comparatively advanced, but (1888) 66 p.c. still unable to read.

Industries and Commerce: Agriculture yields wheat for export. The mining products include nitrate, copper, silver, coal. Imports, £10,496,200; exports, £10,107,300. Staple exports—nitrate, 49 p.c.; wheat, 9 p.c.; 57 p.c. of trade with Un. Kingdom. *Merc. marine* (1894): 137 vessels, 102,199 tons (equal to 63,228 steam-tons).

Government: Republican. Revenue (1895), £3,634,370; debt, £15,068,270. Army, 5,000 men; navy, 35 ships (4 ironclads).

Chief Towns: Santiago (cap.), 190,000; Valparaiso, 105,000; Concepcion, 24,180; Talca, 24,000.

ARGENTINA.

The western part is mountainous, the east consists of vast lowlands (Pampas, Gran Chaco). The country reaches from the tropical into the Antarctic region. Mean temp. of Buenos Aires, 62° (Jan. 76°, July 51°), rainfall 37 in.

Area and Population: 1,077,910 sq. m., pop. 4,500,000. In 1888 there were 600,000 foreigners, incl. 280 Italians, 150,000 French, 100,000 Spaniards, 40,000 English. An. immigration, 126,125; an. emigration, 61,444. *Education*—Free and compulsory, but only 232,508 children at school in 1892.

Industries: 20,860 sq. miles under crop in 1894, principally wheat. Live-stock—22 mill. cattle, 80 mill. sheep, 5,200,000 horses. Gold, silver, copper, zinc, nickel, and coal are mined.

Commerce: Imports, £16,321,030; exports, £20,637,000. Staple exports—cereals, wool, hides, meat. Principal trade with United Kingdom (27 p.c.), France (18 p.c.), Germany (12 p.c.). Of the total tonnage entered, 45 p.c. is British. *Railways* (1894)—8,160 miles. *Merc. marine* (1893)—154 v., 54,454 tons (equiv. to 36,369 steam-tons).

Government: Federal Republican; 14 provinces, a Federal district, and 9 territories. Revenue, £7,650,000; debt, £85,910,000. *Army*, 8,160 men. *Navy*, 56 ships (6 ironclads).

Chief Towns: Buenos Aires (Fed. cap.), 592,000; La Plata, 65,000; Córdoba, 66,000; Rosario, 55,000; Tucuman, 25,000.

URUGUAY.

The coast-region generally low, the interior hilly.

Area and Population: 69,000 sq. m., pop. (est.) 840,000, inclusive of 100,000 Europeans. Immigrants, an. 18,370; emigrants, 13,350. *Religion*—Roman Catholic. *Education*—Compulsory; 67,000 children at school.

Industries: Rearing of cattle, sheep-farming, and agriculture are the leading industries. Mineral wealth (coal, lead, gold) not developed. 910,000 acres under crop (wheat, maize). Live-stock (1890)—5,377,315 cattle, 10,455,170 sheep.

Commerce: Imports, £2,641,000; exports, £3,733,000. Animal products (hides, jerked beef, extract of beef) constitute 97 p.c. of latter. Principal trade with United Kingdom (22 p.c.), France (16 p.c.), Germany (14 p.c.). *Railways* (1893), 974 miles; *mercantile marine*, 42 vessels, 20,326 tons.

Government: Republican. Revenue (1893), £2,409,460; debt, £14,419,500. *Army*, 3,340 men. *Capital*, Monte Video (1893), 225,662.

FALKLAND ISLANDS.

A British Crown Colony in the Southern Atlantic. *Area*: 4,840 sq. m., pop. (1891) 1,789. Chief industry: Sheep farming. Imports, £69,700; exports, £130,650. *Chief town*: Stanley, 694.

South Georgia, 1,573 sq. m. (uninhabited), is a dependency of the Falkland Isles.

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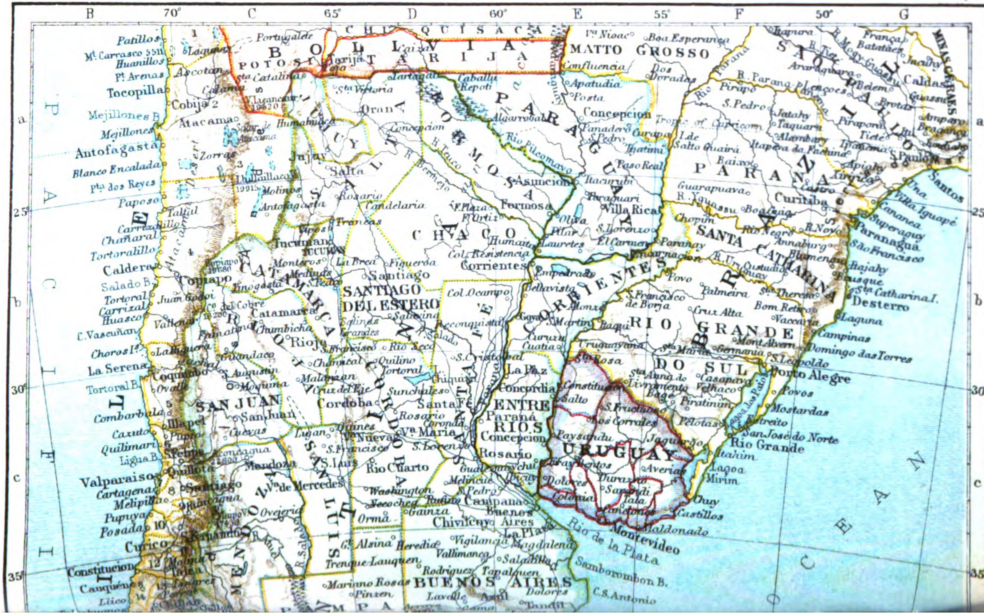
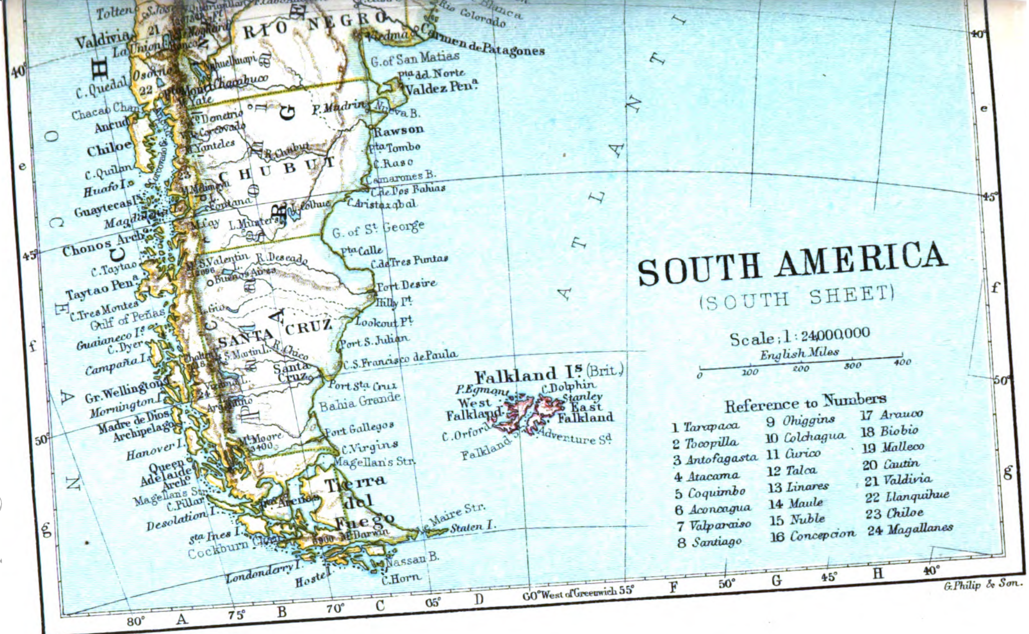

BOLIVIA
POTOSI
TARIJA
CHUQUISACA
MATTO GROSSO
SÃO PAULO
PARANÁ
SANTA CATHARINA
RIO GRANDE DO SUL
BRAZIL
PARAGUAY
URUGUAY
FORMOSA
CHACO
CORRIENTES
ENTRE RIOS
SANTA FÉ
SANTIAGO DEL ESTERO
CATAMARCA
CORDOBA
SAN JUAN
SAN LUIS
MENDOZA
BUENOS AIRES
SALTA
JUJUY
TUCUMAN
CHILE
PACIFIC
OCEAN
Antofagasta
Tocopilla
Valparaiso
Santiago
Asuncion
Montevideo
Rio de la Plata
Porto Alegre
Curitiba
Santos
Corrientes
Rosario
Cordoba
Mendoza
Buenos Aires
La Plata



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THE PACIFIC (AUSTRALASIA).

The term 'Australasia' is best applied to that division of the world which includes the 'continent' of Australia and the islands of the Pacific (South Sea Islands or Polynesia), of which New Guinea is the largest. French geographers have introduced the term 'Oceania,' which also embraces the Malay Archipelago. The South Sea Is. have moreover been grouped, on ethnographical rather than geographical grounds, into *Micronesia* (Carolinas and Marianas), *Melanesia* (with dark-coloured inhab., from New Guinea to the Fiji Is.), and *Polynesia* (New Zealand to the Sandwich Is.).

Area and Population: *Total area* 3,450,223 sq. m., with an estimated pop. of 5,952,000. According to *Religion* there are 4,619,000 Christians, 1,231,000 heathen, 84,000 Buddhists, &c., 15,000 Jews, 5,000 Mohammedans; according to *Race* 4,244,000 Europeans, 1,605,000 Australians and Polynesians, 73,000 Mongols, 15,000 Semites, 10,000 Asiatic Aryans, and 7,000 Malays.

Political Divisions: *British*, 3,181,625 sq. m., pop. 4,949,000; *German*, 97,080 sq. m., pop. 403,000; *Dutch*, 147,548 sq. m., pop. 238,000; *French*, 9,351 sq. m., pop. 97,000; *Spanish*, 1,000 sq. m., pop. 46,000; *Independent*, 13,619 sq. m., pop. 221,000.

BRITISH POSSESSIONS.

For Australasia, see No. 66.

Viti or Fiji: Br. Crown Col., consisting of four larger and numerous smaller islands of volcanic origin, surrounded by coral reefs. Area (incl. Rotumah) 8,045 sq. m., pop. (1891) 122,712, incl. 2,474 Europeans, 9,125 Ind. coolies, a few Chinese and Japanese, in addition to aborigines, about 3,000 of whom are still heathen. Impts., £261,010; expts., £424,920. Staple expts.: Sugar 69 p.c., copra 12 p.c. Nearly all the trade (91 p.c.) with other Brit. Possessions. **Cook or Hervey Islands**, in the W. Pacific, all low coral islands except Raratonga, which is volcanic. Area 142 sq. m., pop. 8,400. **Solomon Islands**: Only four of these are British. Area 8,357 sq. m., pop. 87,000. **Gilbert Islands**: 16 atolls, 166 sq. m., pop. 35,200. Export of copra. **Ellice Islands**: 9 atolls, 14 sq. m., pop. 2,500. Export of copra. **Phœnix Islands**: 10 coral reefs, pop. of Enderbury (guano deposits) 60. **Union Islands** (Tokelau): 7 sq. m., pop. 1,050 (guano deposits). **Manihiki Group**, incl. Humphrey, Penrhyn, and 5 others; 12 sq. m., pop. 1,000. **Minor Islands**: 300 sq. m., pop. 500, include Christmas Island (234 sq. m., pop. 10 ?), Malden (35 sq. m., pop. 170), and Fanning (15 sq. m., pop. 150).

GERMAN POSSESSIONS.

German New Guinea (Emp. William's Land): 70,140 sq. m., pop. 110,000. Export, copra. Plantations. **Bismarck Archipelago**: 18,190 sq. m., pop. 188,000. **Solomon Islands**: Only the Northern ones belong to Germany. Area 8,590 sq. m., pop. 89,000. **Marshall Islands**: two chains of coral islands. Area (with Pleasant I.) 160 sq. m., pop. 16,000.

SPANISH POSSESSIONS.

Carolinas: 560 sq. m., pop. 36,000. They include the hilly Palau or Pelew islands, and the coral archipelago in the East. Chief product, copper.

Marianas: 440 sq. m., pop. 10,000. Six active volcanoes in the N. islands.

For continuation see next page.

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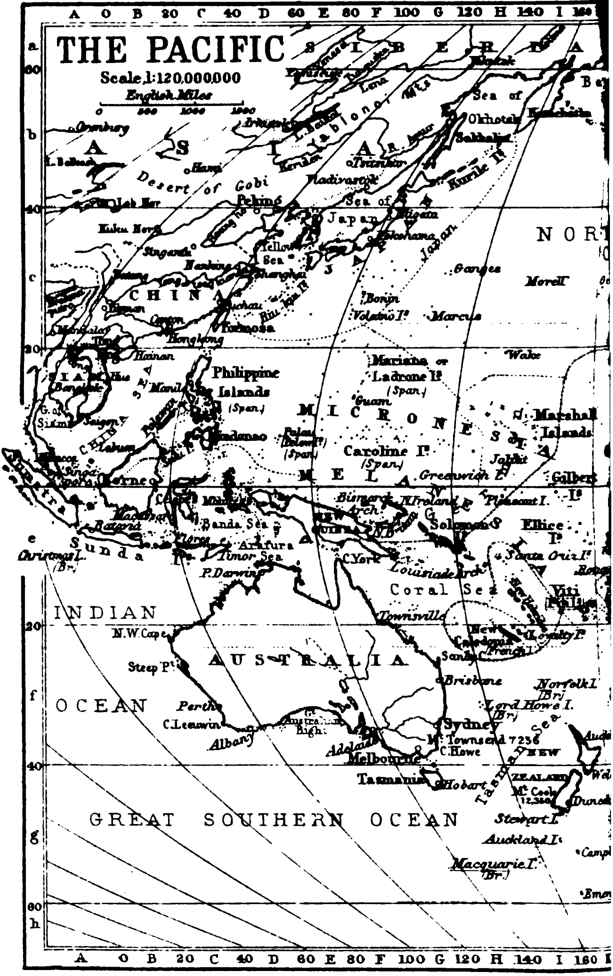
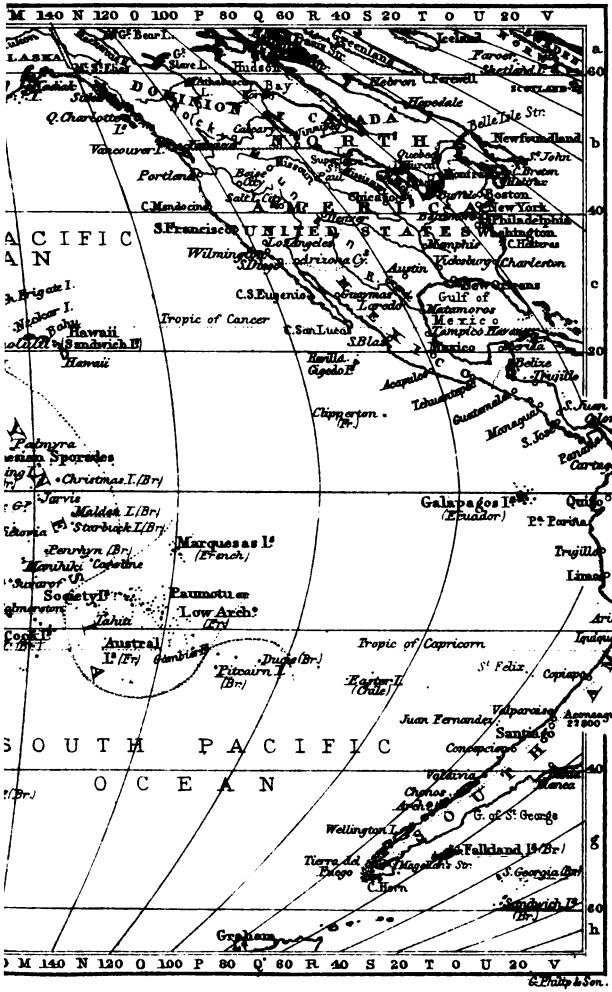

THE PACIFIC
Scale 1:120,000,000
English Miles
0 500 1000 1500
A O B 20 C 40 D 60 E 80 F 100 G 120 H 140 I 160
Desert of Gobi
Sea of Okhotsk
Sea of Japan
Pekin
Yellow Sea
Shanghai
Formosa
Hongkong
Hainan
Philippine Islands (Span.)
Bonin
Volcano I.s
Marcus
Wake
Mariana or Ladrone I.s (Span.)
Guam
Morell I.
Caroline I.s (Span.)
Marshall Islands
Gilbert I.s
Ellice I.s
Banda Sea
Arafura
Timor Sea
P. Darwin
C. York
Louisiade Arch.
Coral Sea
Townsville
New Caledonia (French)
Loyalty I.s
Norfolk I. (Br.)
Lord Howe I. (Br.)
INDIAN OCEAN
N.W. Cape
Steep P.t
AUSTRALIA
Perth
C. Leeuwin
Albany
Adelaide
Melbourne
Brisbane
Sydney
M.t Townsend 7236
C. Howe
Tasmania
Hobart
NEW ZEALAND
M.t Cook 12,350
Stewart I.
Auckland I.s
Macquarie I. (Br.)
GREAT SOUTHERN OCEAN



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THE PACIFIC—*continued.*

FRENCH POSSESSIONS.

New Caledonia, a hilly island (5,413 feet), almost enclosed within a barrier reef; great mineral wealth (nickel, copper, gold, coal). **Area** (including the Loyalty Is.), 7,654 sq. m., pop. 64,000, inclusive of 19,000 Europeans (10,000 convicts). Imports, £466,160; exports, £366,630. Staple export, nickel. Chief trade with France (53 p.c.) **Uea or Wallis**, a group of islands of volcanic origin, within a barrier reef; area 37 sq. m., pop. 3,500 (Rom. Cath.). **Horne Islands** (Futuna with Alofi), 2 volcanic islands; pop. 2,500 (Rom. Cath.). **Society Isles**, a group of islands in the E. Pacific, of volcanic origin, and enclosed within barrier reefs, the largest being *Tahiti* (7,330 feet). Area 637 sq. m., pop. 16,370. Imports, £186,300; exports, £159,330. Staple exports: copra, mother of pearl. Of the tonnage entered 38 p.c. is British, 34 p.c. American. **Paumotu, Tuamotu, or Low Archipelago**: Coral islands. Area (excl. Pitcairn and Easter Islands) 370 sq. m., pop. 5,250. Easter Islands, with Sala y Gomez, 47 sq. m., pop. 150, belongs to Chile. **Austral or Tubuai Isles**, a group of hilly islands (Rapa, 2,127 feet). Area 111 sq. m., pop. 1,880. **Marquesas**, a group of 12 islands of volcanic origin. Area 492 sq. m., pop. 4,450, nearly all still heathen.

Clipperton, an uninhabited island in the E. Pacific, 2 sq. m.

INDEPENDENT ISLANDS.

Hawaii (Sandwich Islands): A group of mountainous islands in the N. Pacific (Mauna Kea, an extinct volcano, 13,950 ft., Kilauea, an active volcano, 3,970 ft.). Mean temp. of Honolulu 75° (Aug. 79°, Jan. 71°); rainfall 31 in. *Area*, 6,557 sq. m.; pop. (1890) 89,990, incl. 40,622 aborigines, 588 other Polynesians, 27,601 Chinese and Japanese, 21,119 Europeans. Decen. incr. 19 p.c. Immigration (less emigration), an. 2,810. *Imports* £1,164,650; *exports* £1,942,500 (sugar 95 p.c.). Of the tonnage entered 71 p.c. is American. *Government*: Repub. (since 1894). Cap. Honolulu (22,907).

Samoa (Navigators' Islands): A group of volcanic islands (6,000 ft.); area 1,076 sq. m., pop. 35,000, incl. 450 Europeans, all Christians. Imports £67,780; exports £35,340 (copra 78 p.c.) Of the trade 39 p.c. is with British Colonies, 23 p.c. with Portugal, 18 p.c. with Germany. Of the tonnage entered 43 p.c. is American, 35 p.c. British. *Government*: A monarchy under joint guarantee of Great Britain, Germany, and the United States.

Tonga (Friendly Islands): An island kingdom in S. Pacific; area 385 sq. m., pop. 17,500, incl. 250 Europeans. Imports £58,300; exports £77,320 (copra 84 p.c.). Of the total trade 44 p.c. is British; of the tonnage entered 65 p.c. *Niuafu*, S.W. of Samoa; 6 sq. m., 1,200 inh. *Niua Islands*, between Samoa and Tonga; 8 sq. m., pop. 1,000. *Niue* or *Savage Island*, E.N.E. of Tonga, 36 sq. m., pop. 5,000.

New Hebrides: A group of mountainous islands (3 active volcanoes), jointly protected by Great Britain and France, but occupied by neither. **Area** 5,107 sq. m., pop. 68,000, mostly heathen.

Santa Cruz: A group of islands, mostly mountainous and densely wooded. An active volcano on Tinakara. Area (incl. Tikopia) 387 sq. m., pop. 5,650.

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AUSTRALIA AND NEW ZEALAND.

Position and Extent: Australia, the smallest of the continents, the largest among the islands of the world, covers an area of 2,934,515 sq. m. (mainland only). It extends 2,560 m. from W. to E., 1,970 m. from N. to S., and its coast-line has a development of 9,620 m. (exclusive of all minor bays), being 305 m. to each sq. m. of area. The area, including coastal islands, Tasmania, and New Zealand, is 3,076,030 sq. m.

Coast: Most of the coast is barren and uninviting. Inlets and natural harbours abound only in the E., S.E., and N.W. The northern portion of the east coast, for a distance of 1,400 miles, is fringed by coral reefs.

Relief: The Great Dividing Range runs along the east coast, rising in the Australian Alps to 7,336 feet. The greater part of the interior consists of a table-land of moderate elevation, either barren or fit only for pasturage. The great lowland plains are those of the Murray Valley and of Lake Eyre, supposed to lie below the level of the sea.

Rivers: The Murray, draining an area of 275,000 sq. m., is the only river of importance, but even it is navigable only during part of the year.

Climate: Tropical in the N., temperate in the S. An annual rainfall of over 25 in. is experienced only along the S.E., E., and N. coasts, and in a small district in the S.W. In the bulk of the interior the annual rainfall is less than 10 in.

Fauna and Flora: When discovered there were neither carnivorous animals (except the dingo) nor ruminants. Pouched animals (such as the kangaroo), cockatoos, the emu, and birds of paradise, are most characteristic of the continent. The *vegetation* is equally peculiar, the principal trees being Eucalypti (grass trees, gum trees, iron bark, &c.), acacias, and casuarinas (oaks). The woods are confined to regions of heavier rainfall. Much of the interior is an open grass-land with scattered trees, degenerating in the more arid parts into a veritable desert.

Population (estimated for 1895): * 4,340,000, inclusive of about 82,000 aborigines and 42,000 Chinese. The bulk are Europeans who have settled in the country since its discovery. Decennial increase 12 p.c. According to Religion, there are about 14,000 Jews, 41,000 Buddhists, &c., 2,000 Mohammedans, 21,000 heathen, and 4,262,000 Christians.

Industries: Mining (gold, copper, tin), agriculture, and the breeding of domestic animals, are the chief industries. In 1893, 8,512 sq. m. were under cultivation (wheat alone covering 6,509 sq. m.), and there were 1,868,910 horses, 12,632,020 cattle, 116,153,632 sheep, and 1,026,014 pigs.

Commerce: On the assumption of Australia forming a Customs Union, and therefore exclusive of inter-Colonial trade, the annual imports amount to £9,860,000 (from United Kingdom 92 p.c.), the exports to £12,901,000 (to United Kingdom 82 p.c., United States 6 p.c.). Of the total tonnage entered 87 p.c. is British.

Railways (1894): 13,450 miles.

Political Divisions: Seven British Colonies, under responsible governments. A proposition for uniting these Colonies into a "Commonwealth" of Australia is under consideration.

* *These and the following statistics refer to Australia and New Zealand.*

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NEW SOUTH WALES.

New South Wales, the oldest Colony in Australia, is traversed throughout its entire length by a Dividing Range, which separates a narrow coastland from the interior tablelands and plains. The coastland is wooded, and is the chief seat of agriculture. The interior drains into the navigable Murray, and yields abundant pasturage.

The Colony lies wholly within the temperate zone. Mean temp. of Sydney 63° (Jan. 71°, July 52°), rain 49 in.; of Deniliquen, in the interior, 62° (Jan. 76°, July 46°), rain 14 in.

Area and Population: 308,560 sq. m., pop. (1891) 1,132,234; dec. incr. 49 p.c. An. immigrants 65,595, emigrants 54,116. *Birth-places:* natives of Australia 72 p.c., of British Islands 23½ p.c., of China 1.2 p.c. (14,150), Aborigines 8,280. *Religion:* mainly Protestants, 286,911 Rom. Catholics, 5,484 Jews. *Education* (1893): University at Sydney; 3,526 State and private schools, with 255,678 pupils.

Industries: Agriculture and mining supports 31 p.c., industries 30 p.c. of the population. 2,358 sq. m. are under cultivation, 198,581 sq. m. are leased to pastoral tenants, 8,043 sq. m. enclosed as timber reserves. Principal crops: wheat, maize, oats; also sugar, grapes, oranges. *Live stock* (1894): 56,980,688 sheep, 2,155,500 cattle, 481,399 horses, 240,860 pigs. *Mining products:* Gold (1851-93 £39,853,952, 1893 £651,286); silver and silver lead (up to 1893, £16,692,455); copper, tin, coal (an. 3,529,750 tons).

Communications: Railways (1894) 2,585 miles, of which 2,501 State lines. Shipping 969 vessels, 110,195 tons (equiv. 73,072 steam-tons). Of the tonnage entered 88 p.c. is British.

Commerce: Imports (incl. treasure) £21,422,000 (of which overland £3,315,300); exports £23,612,300 (overland £7,123,600). Staple exports: wool (50 p.c. of total), live stock, coal, gold. Chief trade with other Australian Colonies, 44 p.c.; the United Kingdom, 38 p.c.; United States, 5 p.c.

Government: Responsible government under a Governor and Legislative Council of not less than 21 life-members appointed by the Crown, and a popularly elected Assembly of 125 members. *Revenue* (1893), £9,706,734; debt (1894), £58,079,073. *Forces:* 5,325 men; 2 torpedo boats.

Chief Towns (1893): Sydney, 105,890 (with suburbs 421,030); Broken Hill (silver mines), 19,680; Newcastle (coal port), 13,500; Goulburn, 12,300; Parramatta, 12,000; Maitland, 10,500; Bath, 10,000.

Dependencies: These include Norfolk Island, the home of the descendants of the mutineers of the Bounty (10 sq. m., pop. 750), and Lord Howe (6 sq. m., pop. 55) in the Tasman Sea; Pitcairn (2 sq. m., pop. 126) and Ducie (1 sq. m.) in the Eastern Pacific.

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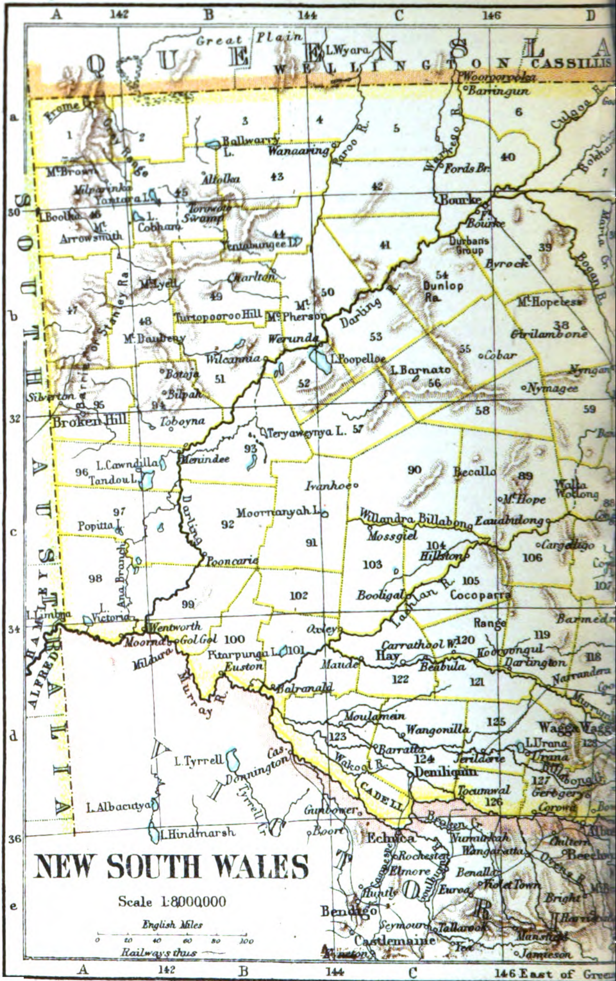
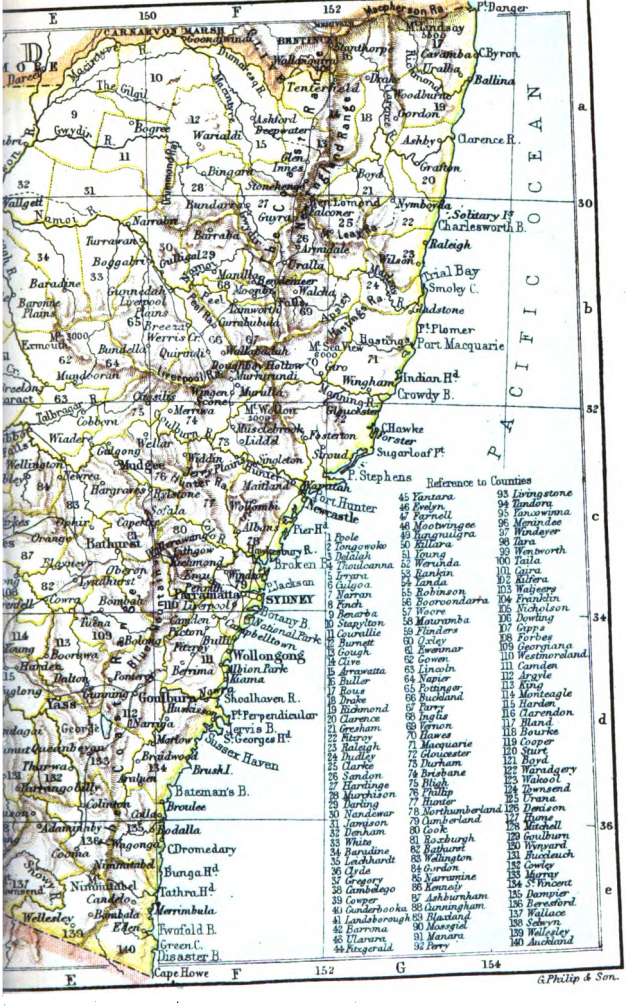

NEW SOUTH WALES
Scale 1:8000,000
English Miles
0 20 40 60 80 100
Railways thus
QUEENSLAND
SOUTH AUSTRALIA
VICTORIA
Great Plain
WELLINGTON
CASSILLIS
Broken Hill
Bourke
Wilcannia
Menindee
Wentworth
Mildura
Euston
Balranald
Hay
Deniliquin
Echuca
Bendigo
Castlemaine
Darling R.
Lachlan R.
Murray R.
Cobar
Hillston
Booligal
Wagga Wagga
Silverton
L. Tyrrell
L. Albacutya
L. Hindmarsh
146 East of Green



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VICTORIA.

A Dividing Range (Mount Bogong, 6,500 feet) separates the southern plains from the broad pastoral lands extending to the river Murray. The former are well watered and thickly wooded, but over the latter the rainfall is deficient, and agricultural pursuits necessitate irrigation works. The *Climate* is genial. Melbourne, mean an. temp. 57° (Jan. 66°, July 49°), rainfall 26 in.

Area and Population: 88,451 sq. m.; pop. (1891) 1,140,405. Dec. incr. 32 p.c. An. immigrants 72,760, emigrants 67,017. Of the total pop. 63 p.c. are natives of Victoria, 7 p.c. of other parts of Australia, 26 p.c. of the British Islands; there are 9,377 Chinese and 565 Aborigines. *Religion:* Roman Catholics, 248,591 (22 p.c.); Jews, 6,459; Buddhists, 6,746. *Education:* Compulsory and secular. Besides a University and 26 technological colleges, there are (1893) 2,782 schools, attended by 165,804 children. In 1891 only 4 p.c. of the adults were unable to write.

Industries: Only 25 p.c. are supported by agriculture and mining, but 34 p.c. by industries, and 56 p.c. live in towns. In 1894 4,717 sq. m. were under cultivation (wheat principal crop), 376 sq. m. under grass, 101 sq. m. covered with orchards and vineyards. *Live stock* (1894): 463,903 horses, 1,817,291 cattle, 13,098,725 sheep, 328,162 pigs. The *Mines* yield tin, copper, antimony, and gold. Produce of the latter, 1851-93, £234,965,364; in 1893, £2,684,504. In 1893 there existed 3,855 factories, &c., employing 43,921 hands.

Communications: Railways (1893) 2,975 miles, all the property of the State; cost £37,451,487. Shipping (1891) 439 vessels, of 93,913 tons (equiv. to 63,465 steam-tons). Of 4,400,660 tons annually entered 89 p.c. are British.

Commerce: Imports £17,390,000, exports (incl. treasure) £14,509,660. The exports included wool, £6,329,300 (26 p.c.); treasure, £2,463,660 (import of do. £1,320,000); flour and grain, £1,348,660; live stock, butter and cheese, &c. The chief trade was with the United Kingdom, 46 p.c., and the other Australian Colonies 35 p.c.

Government: Responsible government. Governor appointed by the Crown. Legislature exercised by a Parliament of two Chambers, viz., a Legislative Council elected under a limited franchise, and a popularly elected Assembly. *Revenue* (1894), £6,719,623; debt, £47,300,000. *Colonial forces:* 5,954 men (629 permanent), with 15 armed vessels (including 1 ironclad and 7 torpedo boats).

Chief Towns (1893): Melbourne, 444,832; Ballarat, 44,766; Bendigo (Sandhurst), 40,936; Geelong, 24,315; Castlemaine, 6,892; Warrnambool, 6,600; Stawell, 5,320.

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QUEENSLAND.

Queensland includes a narrow strip of lowland on the Coral Sea; a broad plain around the Gulf of Carpentaria, and an interior tableland, with mountains probably nowhere exceeding 5,000 ft. in height. Above one half the country is covered with natural forests. The climate is sub-tropical in the S., tropical in the N. Mean temp. at Brisbane, 68°, at Somerset, Torres Strait, 79°; extreme months 56° and 77° at the former, 76° and 82° at the latter; rainfall resp. 52 and 88 in.

Area and Population: 668,257 sq. m., pop (1891) 393,718, incl. 8,574 Chinese, 9,428 Polynesians, and 1,884 other Orientals, besides about 12,000 Aborigines. According to birth 52 p.c. are natives of Australia, 37 p.c. of the Un. Kingdom. An. immigr. 28,462; emigrants, 23,967. *Religion*: Protestants, 74 p.c., Roman Catholics, 21 p.c. *Education* (1893)—849 schools, 53,244 pupils.

Industries: Only 252,075 acres were under cultivation in 1893; maize and sugar-cane are the principal crops. Great mineral wealth (tin, copper, lead, gold and coal); gold raised 1858-93, £32,365,948; in 1893, £2,159,290. Coal, an. 235,000 tons. Pearl Fishery in Torres Straits. *Railways* (1893), 2,379 miles; of the tonnage entered 97 p.c. is British.

Commerce: Imports, £4,631,300; exports, £9,036,000. Staple exports: Wool, £3,764,700; gold, £2,065,000; live-stock and meat, £1,126,000; sugar, £658,300. Chief trade with the other Australian Colonies, 53 p.c., and the Un. Kingd., 42 p.c.

Government: A responsible Government vested in a Governor, a Legislative Council (members appointed for life by the Crown), and an Assembly, elected under a restricted franchise. Revenue, 1893-4, £3,343,069; debt, £30,639,534.

Colonial Forces: 3,337 men; 9 armed vessels.

Chief Towns (1891): Brisbane, 48,738; Rockhampton, 13,380; Maryborough, 9,700; Townsville, 8,564; Gympie, 8,449; Ipswich, 7,625.

NEW GUINEA.

New Guinea, next to Greenland the largest island in the World, covers an area of 311,960 sq. m. The centre and North are mountainous (Mt. Victoria in the Owen Stanley mountains, 13,120 feet); in the South a broad plain; the greater part is covered with forest. Among its products are camphor, sago and cocoanuts. The fauna is that of N. Australia and the Moluccas. Gold has been discovered. The climate is hot and damp. At Port Moresby mean temp. 78°, rain (July to Sept.) 72 in. In German New Guinea the rains are heavier (97 to 142 in.).

The natives are known as Papuas ('curly'). They are black, have curly hair, live in pole villages, and still practise cannibalism. In the West there is an admixture of Malays, in the E. of Polynesians.

Politically the island is divided between Britain, Germany, and the Netherlands.

British New Guinea: 88,460 sq. m., pop. 350,000. Imports, £29,150, exports £20,000, including pearls, gold, trepang, copra, sandalwood.

German New Guinea, or Emperor William's Land: 70,140 sq. m., pop. 110,000.

Dutch New Guinea: 153,360 sq. m., pop. 240,000.

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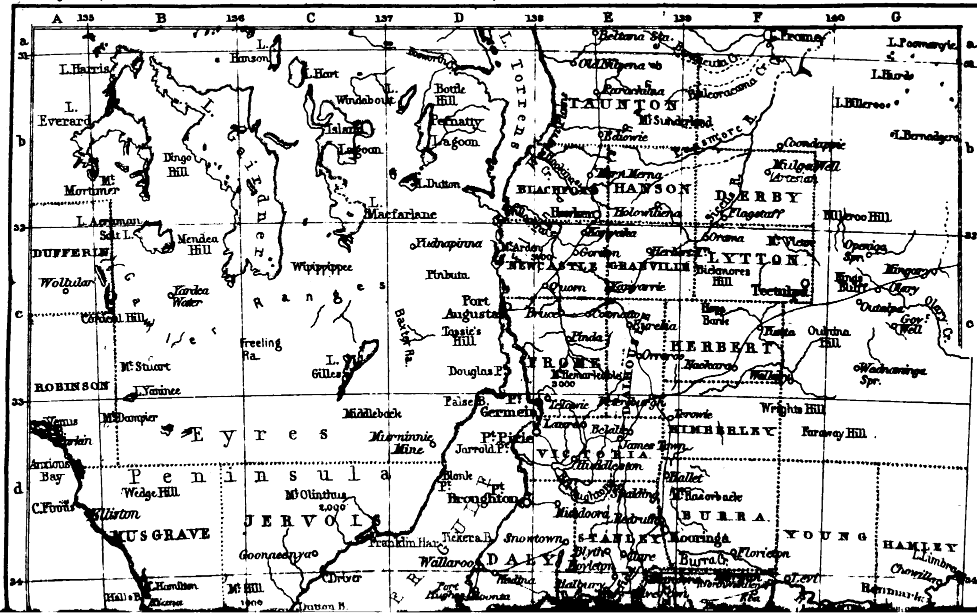
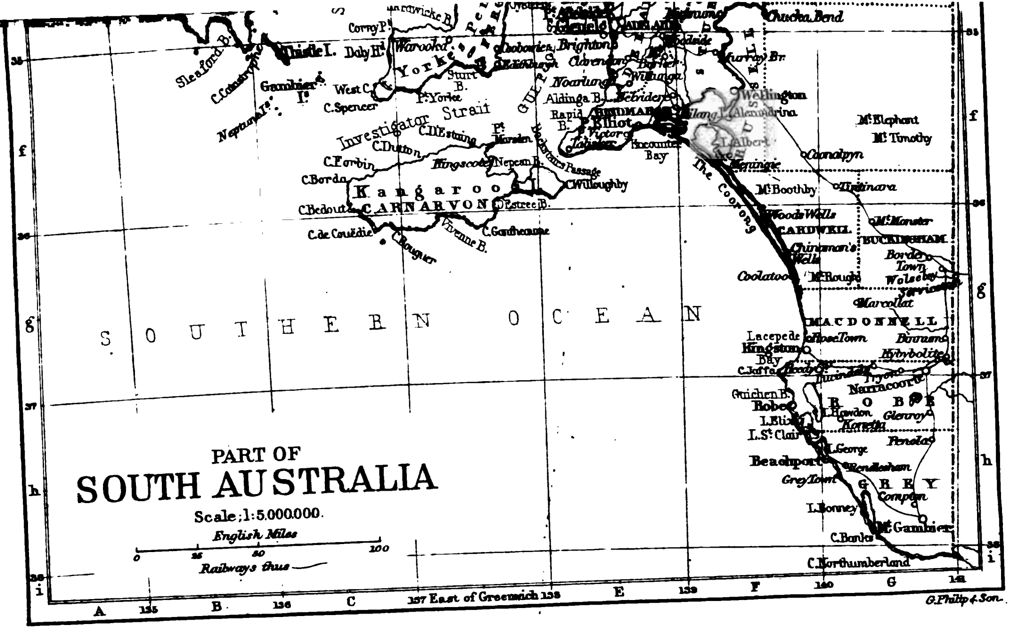

L. Torrens
L. Gairdner
Gawler Ranges
Eyres Peninsula
L. Everard
L. Harris
L. Hanson
L. Hart
Windabout
Island Lagoon
Lagoon
Bottle Hill
Pernatty Lagoon
L. Dutton
L. Macfarlane
Dingo Hill
Mt Mortimer
L. Acraman
Salt L.
Mendea Hill
Wipipippee
Yardea Water
Freeling Ra.
Baxter Ra.
L. Gilles
Mt Stuart
L. Yaninee
Conical Hill
Wolbular
DUFFERIN
ROBINSON
Mt Dampier
Venus
Anxious Bay
C. Finniss
Elliston
MUSGRAVE
Wedge Hill
JERVOIS
Mt Olinthus
2,000
Goonaeenyya
Franklin Har.
C. Driver
Middleback
Miarninnie Mine
Pudnapinna
Pinbum
Port Augusta
Tassie's Hill
Douglas Pt
False B.
Pt Germein
Pt Pirie
Jarrold Pt
Blonk Pt
Pt Broughton
Ticker a B.
Wallaroo
Snowtown
DALY
FROME
Mt Remarkable
3000
Beltana Sta.
Old Balpena
Parachilna
TAUNTON
Mt Sunderland
Edowie
Mern Merna
BLACHFORD
HANSON
Holowiliena
DERBY
Flagstaff
Mulga Well
Artesian
Coondapie
L. Frome
Balcoracana Cr.
Siccus Cr.
L. Pommayle
L. Bille
L. Bernadgera
Billeroo Hill
Openiga Spr.
Kings Bluff
Olary
Olary Cr.
Outalpa
Govt Well
Outhina Hill
Wadnaminga Spr.
Orama
Mt Victor
LYTTON
Bickmores Hill
Teetulpa
Gordon
Hesketh
Mt Arden
NEWCASTLE
GRANVILLE
Quorn
Kanyarvie
Bruce
Coonatto
Eurelia
Pinda
Orroroo
HERBERT
Nackara
Waukaringa
Hawker
Wilson
Yarrah
Boolcunda
Petersburgh
Terowie
KIMBERLEY
Wrights Hill
Faraway Hill
Laura
Belalie
James Town
VICTORIA
Hallett
Mt Razorback
Spalding
Redruth
Burra
BURRA
YOUNG
HAMLEY
STANLEY
Mooringa
Florieton
Burra Cr.
Blyth
Clare
Hallam
Port Hughes
Moonta
Mt Hill
Dutton B.
L. Hamilton
Hall's B.
L. Limbra
Chowilla
Renmark


PART OF
SOUTH AUSTRALIA
Scale;1:5.000.000.
English Miles
0
25
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Railways thus
SOUTHERN OCEAN
Investigator Strait
Kangaroo
CARNARVON
The Coorong
Encounter Bay
Lacepede Bay
Kingston
Robe
Beachport
Mt. Gambier
Narracoorte
Wellington
Alexandrina
L. Albert
Meningie
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Adelaide
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Mt. Elephant
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CARDWELL
BUCKINGHAM
Chinaman's Wells
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Border Town
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Bordertown
Kybybolite
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L. George
Penola
Rendlesham
Grey Town
GREY
Compton
L. Bonney
C. Banks
C. Northumberland
ROBE
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Koreetta
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Tryon
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Warooka
Yorke
Hardwicke B.
Sleaford B.
C. Catastrophe
C. Forbin
C. Dutton
C. D'Estaing
D'Estree B.
East of Greenwich
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WEST AUSTRALIA.

Western Australia consists in the main of a vast tableland of moderate elevation. Woods are found only in the tropical north and the extreme south-west; the interior is a desert; the rest affords pasture. *Climate:* Perth, mean temperature 65° (January 76°, July 56°), rainfall 26 in.

Area and Population: 975,824 sq. m., population (1891), 55,452, inclusive of 5,670 settled aborigines; (1895, estimated) 99,000. *Religion:* Catholics number 25 p.c., and of the adult whites 13 p.c. are unable to read.

Industries: In 1893 only 176,578 acres were under cultivation (wheat). The live-stock included 173,747 cattle, 2,220,642 sheep. The mineral wealth is considerable, and includes copper, lead, silver, coal, iron, and especially gold, of which £421,385 was won in 1893. The 4 gold-fields are Coolgardie and Yilgarn, Murchison, Pilbarra and Kimberley.

Commerce: Imports, £1,355,330; exports, £866,670. Staple exports: wool, 35 p.c.; gold, 30 p.c.; sandal-wood, pearls, mother-of-pearl, &c. Chief trade with United Kingdom, 45 p.c., and the other Australian Colonies, 43 p.c. *Railways* (1894), 1,184 miles. Of the tonnage entered 84 p.c. is British.

Government: A responsible government, vested in a Governor appointed by the Crown; a Legislative Council, elected triennially under a limited franchise; and a popularly chosen Assembly. *Revenue* (1893), £570,651; debt, £2,873,098. *Colonial forces:* 817 men.

Towns: Perth, on Swan River, the capital, 12,424; Fremantle, 9,000; Albany (King George's Sound), 3,500.

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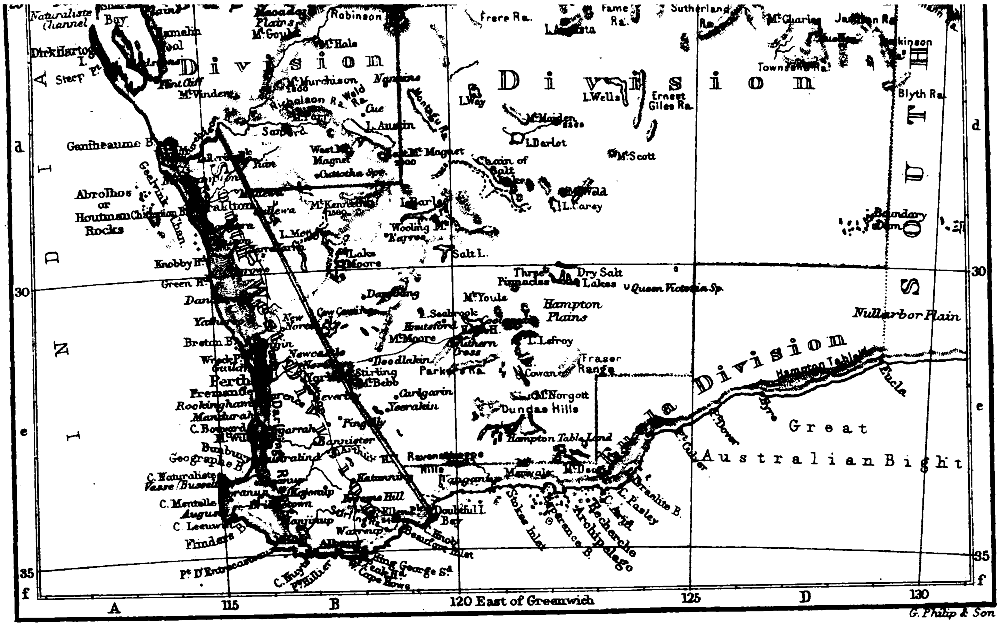

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NEW ZEALAND.

includes two large and one smaller island, stretching for 900 miles from N.E. to S.W. In the South Island the 'Southern Alps' (Mount Cook, 12,350 ft.) rise into the region of perennial snow; whilst the North Island boasts at least one active volcano (Ruapehu) and the remarkable crater-lake of Taupo. *Climate* not unlike that of Gr. Britain. Mean an. temp. in the plains 51° to 60° (Jan. 58° to 68°, July 43° to 52°); rainfall 26 to 112 in. (E. coast 36 in., W. coast 80 in.).

Area and Population: 103,657 sq. m.; pop. (1891) 668,651, incl. 41,993 native Maories and 4,444 Chinese; decen. increase 8 p.c.; immigrants, an. 17,820; emigrants, 15,900. According to birth 61 p.c. are natives of N.Z., 33 p.c. of the British Isles. *Religion*: Protestants 84 p.c., Roman Catholics 14 p.c. *Education* (1893): 1,743 schools, 144,131 pupils.

Industries: Only 15 p.c. of area cultivated. Live-stock (1891)—211,040 horses, 831,831 cattle, 18,227,186 sheep, 308,812 pigs. The *Mines* yield gold (an. £958,450), coal (677,886 tons), silver, antimony, &c. Kauri gum (a resin) is dug up to the an. value of £488,500. *Railways* (1894), 2,112 miles. Of the tonnage entered 91 p.c. is British.

Commerce: Imports, £6,786,140; exports, £9,362,203. Staple exports—wool, £4,072,642; meat, £1,180,814; gold, £958,350; kauri gum, £488,555. Chief trade with the United Kingdom, 73 p.c.; Australia, 16 p.c.; and Un. States, 5 p.c.

Government: Governor and 'General Assembly,' including a Legislative Council (members appointed by the Crown for 7 years), and a House of Representatives. Revenue (1894), £4,368,538; debt, £38,874,490. *Forces*—Volunteers, 7,580 men; permanent militia, 138 men.

Chief Towns: Wellington, capital, 31,021; Auckland, 28,613; Dunedin, 32,376; Christchurch, 16,223.

Dependencies: Chatham Isles (375 sq. m., pop. 311), Kermadec Isles (13 sq. m., pop. 19); Bounty, Antipodes, Auckland, and Campbell (425 sq. m.), all uninhabited; Cook, or Hervey Islands (142 sq. m., pop. 8,400).

TASMANIA.

Surface generally hilly (Mount Lomond, 5,000 ft.) *Climate*, temperate. Hobart, mean temp. 56° (Jan. 63°, July 56°); rain 23 inches.

Area and Population: 26,215 sq. m., pop. (1891) 146,667; decen. incr. 27 p.c. An. immigr. 24,422; emigr. 22,425. *Religion*—Protestants, 81 p.c.; R. Catholics, 18 p.c. *Education* (1893)—427 schools, 28,655 pupils; 25 p.c. of total pop. illiterate.

Industries: In 1893 only 191,951 ac. under crops. Live-stock—31,587 horses, 169,141 cattle, 1,535,047 sheep, 51,952 pigs. The mines yield tin, gold, silver, coal (annually, 34,000 tons).

Commerce: Imports, £1,535,300; exports, £1,379,300. Staple exports—wool, £348,000; tin, £283,000; treasure, 204,300; fruit, £131,700. Chief trade with other Australian colonies, 67 p.c.; United Kingdom, 29 p.c. *Railways* (1893)—475 miles. Of tonnage entered, 99 p.c. British.

Government: A responsible government, vested in a Governor, a Legis. Council, and a House of Assembly. Revenue (1894), £815,920; debt, £7,645,604. *Colonial Force*, 517 men.

Chief Towns: Hobart, capital, 24,905; Launceston, 17,118.

Dependency: (In addition to islands in Bass Strait, included above), Macquarie Island, no inhabitants, but annually visited by a few sealers.

VITI, or FIJI ISLANDS.

A group of volcanic islands, surrounded by coral reefs, and rising to a height of 4,000 feet. *Climate* tropical—Levu, mean temp. 78° (Jan. 82°, Aug. 74°), rainfall 94 inches.

Area (incl. Rotumah), 8,045 sq. m.; pop. (1891), 122,712, incl. 2,474 Europeans, 9,175 Indians, 109,400 South Sea Islanders, and 1,663 others. 110,000 are Christians.

Industries: 36,710 acres cultivated by Europeans, with the aid of Indian labourers, and producing cocoa-nuts, sugar-cane, bananas, tobacco, tea.

Commerce: Imports, £261,011; exports, £421,586. Staple exports—sugar, £274,180 (364,956 cwts); bananas, copra. Nearly all the trade with the Australian colonies. Of the total tonnage entered 91 p.c. is British.

Government: Crown colony. Rev. (1894), £74,000; debt, £239,682. Seat of government is Suva, on the S. coast of Viti Levu, with 850 Europeans.

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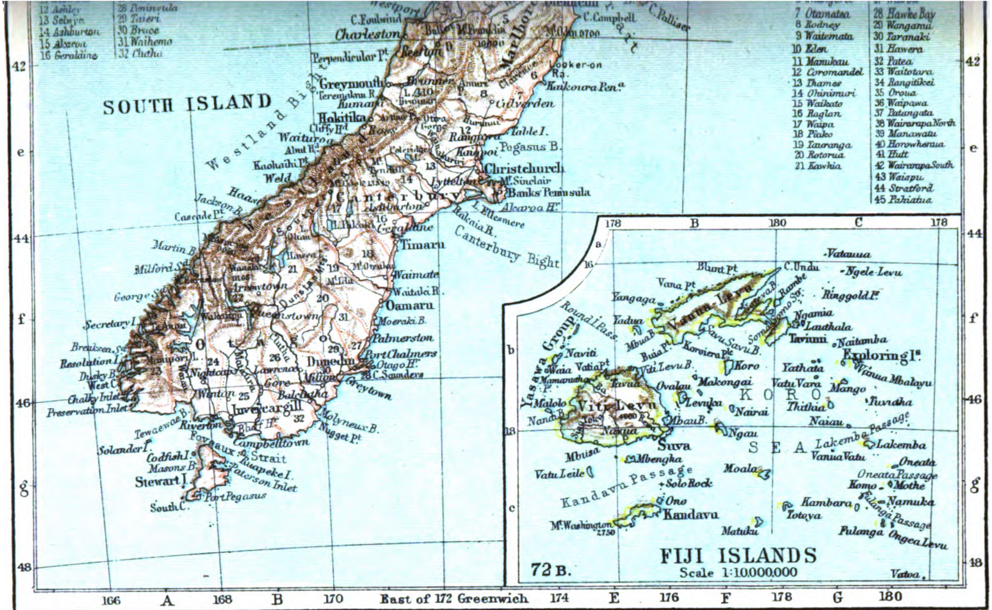

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ABBREVIATIONS: *Arch.*, Archipelago; *B.*, Bay; *Br.*, Bridge; *C.*, Cape; *Cas.*, astle; *Chan.*, Channel; *Co.*, County; *Comp.*, Compartimenti; *Cr.*, Creek; *Dept.* Depart-ent; *Des.*, Desert; *Dist.*, District; *E.*, East; *Fd.*, Fiord; *Ft.*, Fort; *G. F.*, Gold Field; ., Gulf; *Gov.*, Government; *Gr.*, Group; *Gt.*, Great; *Harb.*, Harbour; *Hd.*, Head; *Ho.*, House; *I.*, Island; *Is.*, Islands; *Jeb.*, Jebel; *L.*, Lake, Loch or Lough; *Lag.*, agoon; *L-Ho.*, Light-House; *L-V.*, Light-Vessel; *Lit.*, Little; *Mt.*, Mount or Mount-in; *Mts.*, Mountains; *N.*, North; *Nom.*, Nomarchy; *Pen.*, Peninsula; *Prov.*, Province; *Pt.*, Point; *R.*, River; *Ra.*, Range; *Rep.*, Republic; *S.*, South; *Spr.*, Spring; *Sd.*, ound; *Sra.*, Sierra or Serra; *Sta.*, Station; *Str.*, Strait; *Vol.*, Volcano; *W.*, West.

NOTE.—Each Map is divided into Squares by the lines of latitude and longitude, and hese Squares are indicated by Reference Letters in the margin or border of the Map. These Reference Letters, following each name in the Index, indicate the Square, and he succeeding Numeral indicates the number, of the Map in which each place will be ound. Thus:—"Oban.....Scotland Cc 14," shows that *Oban* will be found in Map 14, and in the Square indicated by the Reference Letters "Cc." The *Latitude* and *Longitude* of any place may be readily found from the Map itself, and *Distances* in any direction may also be measured from the Scale of Miles given on each Map.

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Benin, Bight of, Guinea Db 47A
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Beni Uled, Tripoli Fb 46
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Ben Lawers, Scotland Cc 15
Ben Ledi, Scotland Ca 16
Ben Loichain, Scot. Ba 16
Ben Lomond, N.S.W. Fb 67
Ben Lomond, Scotland Ba 16
Ben Lomond, Tasmania Cb 72A
Ben Lui, Scotland Ba 16
Ben Macdhui, Scot. Db 15
Ben Mhanarch, Scot. Ba 16
Ben Mhor, Scotland Ab 15
Ben More (Mull), Scot. Cc 14
Ben More (Perth), Scot. Ba 16
Ben More (S. Uist), Scotland Ab 14
Ben More (Sutherland), Scotland Ca 15
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Bennett I., Siberia Ia 43
Ben Nevis, Scotland Cc 14
Ben Reoch, Scotland Ba 16
Ben Rinnes, Scotland Db 15
Ben Screel, Scotland Bb 15
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Bentinck I., Queens. Af 69
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Benty, W. Africa Bc 47
Ben Uarn, Scotland Dc 15
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Ben Vane (Argyll), Scotland Ba 16
Ben Vane (Perth), Scotland Ca 16
Ben Venue, Scotland Ba 16
Ben Vorlich (Dumbarton), Scotland Ba 16
Ben Vorlich (Perth), Scotland Ca 16
Benwee Hd., Ireland Bb 17
Ben Wyvis, Scotland Cb 15
Ben y Gloe, mt., Scot. Dc 15
Berabish, W. Africa Da 47
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Bergama, As. Turkey Ee 27
Bergamo, Italy Bb 26
Bergamo Alps, Italy Dc 21
Bergen, Germany Da 19
Bergen, Norway Bc 22
Bergen, div., Norway Bc 22
Bergenhuus, North, prov., Norway Bc 22
Bergenhuus, South, prov., Norway Bc 22
Bergen op Zoom, Netherlands Cc 20A
Berghaus, Mt., W. Australia Bc 71
Berhampur, India Ed 35
Bering Bay, Alaska Bc 54
Bering I., Pacific Oc. La 65
Bering Sea, Pacific Oc. Kb 65
Bering Strait, Asia and America Ob 43
Beris, Egypt Bc 45
Berkeley, England De 10
Berkel, R., Germany Ab 19
Berkovatz, Bulgaria Cc 27
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Berkuton, Brit. Guiana Fc 63
Berlad, Romania Ea 27
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Bermejo, R., Argentina Da 64
Bermudas, The, Atlantic Ocean Le 50
Bermudez, state, Venezuela Eb 63
Bern, Switzerland Bb 21
Bern, canton, Switz. Bb 21
Bernadgera, Lake, S. Australia Gb 70
Bernadillo, U. States Ec 58
Bernagh, Slieve, Ireland Cd 17
Bernardo, Brazil Ec 62
Bernera I., Scotland Ac 14
Bernera, Loch, Scot. Aa 15
Bernier I., W. Australia Ae 71
Berninal Pass, Switzerl'd Eb 21
Bernina, Piz, Switzerl'd Db 21
Berriedale, Scotland Da 15
Berriedale Water, Scot. Da 15
Berrima, N. S. Wales Fd 67
Berrio, F., Colombia Ee 60
Berry Prov., France Dc 24
Bersaia, S. Africa Bc 49
Berthier, Canada Gc 53
Beru, Borneo Cc 38
Bervie, Scotland Ec 15
Berwick, Victoria Ee 68
Berwick Co., Scotland Fb 16
Berwick, North, Scot. Fa 16
Berwick-upon-Tweed, England Ca 8
Berwyn Mts., Wales Cb 10
Besançon, France Gc 24
Besika Bay, As. Turk. Ee 27
Beskids, Eastern, Hungary Gb 23
Beskids, The, Hungary Fb 23
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Bessarabia, gov., Russia Ee 29
Bessemer, U. States Ea 57
Beta, Queensland Ei 69
Betanis, Germ. S.-W. Africa Bg 48
Betanzos, Spain Aa 25
Bethanga, Victoria Gc 68
Bethany, S. Africa Bc 49
Bethel, Palestine Ce 32
Bethel, U. States Bd 52
Bethesda, Wales Ba 10
Bethlehem, Palestine Ce 32
Bethlehem, Orange Free State Dc 49
Bethshan, Palestine Dd 32
Bethulie, Orange Free State Dd 49
Betraghboy B., Ireland Ac 17
Betra Par, India Bb 36
Betsiamite R., Canada Cb 52
Betsimisaraka Tribe, Madagascar Ig 48
Bettia, India Dc 35
Bettié, Guinea Aa 47A
Bettws, Wales Bc 10
Betuwe, The, Netherlands Dc 20A
Betwa, R., India Cc 35
Beuthen, Germany Ic 18
Beverley, England Dc 8
Beverley, W. Australia Be 71
Bewdley, England Db 10
Bex, Switzerland Bb 21
Bexhill, England Cd 11
Beypur, India Cb 36
Béziers, France Ee 24
Bhagalpur, India Ec 35
Bhamo, Burma Ba 37
Bhandara, India Cd 35
Bhartpur, India Cc 35
Bhaunagar, India Bd 35
Bhera, India Bb 35
Bhilsa, India Cd 35
Bhima, R., India Ca 36
Bhopal, India Cd 35
Bhor, India Ba 36
Bhuj, India Ad 35
Bhutan, state, India Ec 35
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Bia R., Guinea Ab 47A
Biarritz, France Ce 24
Biasca, Switzerland Cb 21
Bicester, England Ac 11
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Bida, W. Africa Fc 47
Bida, El, Arabia Fb 45
Bidar, India Ca 36
Biddeford, U. States Db 56
Bideford, England Ca 13
Biebrich, Germany Ba 19A
Biel, Switzerland Ba 21
Bielaya, R., Russia Ce 42
Bielefeld, Germany Bb 19
Bielgorod, Russia Gd 29
Bielitz, Austria Fb 23
Bielostok, Russia Dd 29
Bielozersk, Russia Gc 29
Bielukha, mt., Siberia Ff 42
Bien-hoa, Cochin China Dc 37
Bien-ho L., Cambodia Cc 37
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Bienne, Lac de, Switz. Ba 21
Bieque (or Vicques) I., West Indies Fc 60
Bierley, North, Eng. Db 9
Big Blue Creek, U.S. Fc 58
Bigbury Bay, England Db 13
Biggar, Scotland Db 16
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Bigge's Ra., Queens. Fj 69
Biggleswade, England Bb 11
Big Horn Mts., U.S. Eb 58
Big Horn R., U. States Eb 58
Big R., Canada Ic 51
Big Reed L., Canada Kd 54
Bihach, Austria Ed 23
Bihar, dist., Hungary Hc 23
Bihé, Port. W. Africa Ce 48
Biisk, Siberia Fe 42
Bijar, Persia Bb 33
Bikaner, India Bc 35
Bilaspur, India Dd 35
Bilbao, Spain Da 25
Billabong Cr., N.S.W. Dd 67
Billcross, L., S. Aust. Gb 70
Billeroo Hill, S. Aust. Gb 70
Billings, U. States Ea 58
Billiton I., Malaysia Bd 38
Bilma, W. Africa Ga 47
Bilpah, Queensland Bf 67
Bilston, England Db 10
Bimerah, Queens. Cj 69
Bingara, N. S. Wales Fa 67
Bingen, Germany Ad 19
Bingham, England Bb 11
Binghamton, U.S. Gd 53
Bingley, England Db 9
Bingol Dagh, mt., Turkey in Asia Ec 31
Binh-din, Annam Dc 37
Binh Thuan, Cochin China Dc 37
Bintulu, Borneo Cc 38
Binnum, S. Australia Gg 70
Biobio Prov., Chile Bd 64
Bir Ali, Arabia Ee 45
Biranga Mts., Siberia Da 43
Birch Mts., Canada Hc 52
Bird City, U. States Bc 57
Bird Point, Scotland Ba 16
Bir es Seba, Palestine Bf 32
Birjand, Persia Dc 33
Birkdale, England Ab 9
Birkenfeld, Germany Ad 19
Birkenhead, England Ca 10
Birmingham, England Eb 10
Birmingham, U. States Ed 57
Bir Murad, Egypt Bc 45
Birregurra, Victoria Ce 68
Birs, R., Switzerland Ba 21
Birstal, England Db 9
Bisandugu, W. Africa Cb 47
Biscayne Bay, U.S. Be 56
Biscayne Key, U.S. Be 56
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Bischofzell, Switz. Da 21
Bishari, The, Nubia Bc 45
Bishop and Clerks, The, Wales Bb 10
Bishop Auckland, Eng. Cb 8
Bishop Hill, Scotland Ea 16
Bishop's Castle, Eng. Cb 10
Bishop Stortford, Eng. Cc 11
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Biskra, Algeria Eb 46
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Bismarck, U. States Fa 58
Bismarck, Victoria Bc 68
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Bistritza, R., Romania Jc 23
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Bitter Root Mts., U.S. Ca 58
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Biya, R., Siberia Fe 42
Bizerte, Tunis Ea 46
Björneborg, Russia Db 29
Björnor, Norway Cc 22
Blaauw Berg, The, S. Afr. Republic Db 50

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Blaavands Huk, Den. Ac 20B
Blachford Co., S. Australia Eb 70
Blackall, Queensland Dj 69
Blackburn, England Cb 9
Black Cart R., Scotland Cb 16
BlackCombe, The, Eng. Ab 8
Black Down Hills, England Db, Eb 13
Black Drin R., Turkey Bd 27
Blackfoot, U. States Db 58
Blackford, Scotland Da 16
Black Forest, Germany Dd 18
Black Head (Cornwall), England Bb 13
Black Head (Cornwall), England Cb 13
Black Hill, England Db 9
Black Hills, U. States Bb 57
Blackhope Scar, mt., Scotland Eb 16
Black Irtish, R., Central Asia Ff 42
Black Isle, The, Scot. Cb 15
Black Larg, Scotland Dd 14
Black Mt., U. States Bc 56
Black Mt., Victoria Hd 68
Black Mts., India Bb 35
Black Mts., Wales Cc 10
Black Mts. (Tennessee), U. States Fc 57
Black Mts. (Wyoming), U. States Eb 58
Black Pt., S. Australia De 70
Blackpool, England Ab 9
Black Pyramid, Tasmania Bb 72A
Black Ra., Victoria Bd 68
Black R., U. States Fe 53
Black R. (Br. Columbia), Canada Fd 54
Black R. (Br. Columbia), Canada Ec 54
Black Rock, Ireland Ab 17
Blackrock, Ireland Ec 17
Blackrod, England Bb 9
Black Sea, Europe Kg 5
Blackside End, mt., Scotland Cb 16
Blacksod Bay, Ireland Ab 17
Blackstone Edge, Eng. Cb 9
Blackwater, Ireland Ed 17
Blackwater, R., Eng. Cc 11
Blackwater, R., Scot. Ca 15
Blackwater, R. (Cork), Ireland Cd 17
Blackwater, R., (Monaghan), Ireland De 17
Blaenavon, England Cc 10
Blagoveshchensk, Siberia Gc 43
Blair Athol, Scotland Dc 15
Blairgowrie, Scotland Dc 15
Blairingone, Scotland Da 16
Blairmore, Scotland Ba 16
Blair, Port, Andaman Is. Ac 37
Blakeley, U. States Fd 57
Blakely, U. States Bd 56
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Blanco, Cape, Peru Ad 63
Blanco, Cape, U. States Bb 58
Blanco Encalada, Chile Ba 64
Blanco Peak, U. States Ec 58
Bland Co., N.S. Wales Dd 67
Blandford, England Eb 13
Blanes, Spain Gb 25
Blane Water, Scotland Ca 16
Blank Point, S. Aust. Dd 70
Blanquilla I., S. America Gd 60
Blantyre, Brit. C. Africa Gf 48
Blantyre, Scotland Cb 16
Bla K., Annam Dc 37
Blaxland Co., N.S.W. Dc 67
Blaye, France Cd 24
Blayney, N. S. Wales Ec 67
Bleasdale Moors, Eng. Bb 9
Blenheim, N. Zealand Ed 72
Bletchley, England Bb 11
Blewfields, C. America Cd 60
Blida, Algeria Da 46
Bligh Co., N. S. Wales Ec 67
Block I., U. States Bf 52
Bloemfontein, Orange Free State Dc 49
Bloemhof, S. African Rep. Dc 49
Blois, France Dc 24
Blonde I., China Bc 41
Bloody Foreland, Ireland Ca 17
Bloomington, U. States Eb 57
Bloomsburg, Queens. Fh 69
Bloom, Slieve, Ireland Dc 17
Bludenz, Austria Da 21
Blue Fish R., Canada Ib 54
Blue Mt., West Indies Dc 60
Blue Mts., N. S. Wales Ed 67
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Blue Nile, R., E. Sudan Be 45
Blue Ridge, The, U. S. Eg 53
Blue Stack, mt., Ireland Cb 17
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Bluff Harbour, N. Z. Bg 72
Blumenau, Brazil Gb 64
Blumenfeld, Germany Ca 21
Blunt Point, Fiji Bb 72B
Blyth, S. Australia Ed 70
Blyth (Northumberl'd), England Ec 9
Blyth (Notts), England Aa 11
Blythe Edge, Scotland Fb 16
Blyth Range, S. Aust. Dd 71
Boa Esperança (Matto Grosso), Brazil Ag 62
Boa Esperanza (Amazonas), Brazil Ee 63
Boa Guia, Brazil Fb 64
Boa Vista, (Amazonas), Brazil Dd 63
Boa Vista (Amazonas), Brazil Ec 63
Boa Vista (Bahia), Brazil De 62
Boavista (Maranão), Brazil Ec 62
Boavista I., C. Verde Is. Ba 47B
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Bober, R., Germany Ec 19
Bobruisk, Russia Ed 29
Bocas de Toro, Colombia Ab 63
Bochnia, Austria Gb 23
Bochragh Mts., Ireland Cd 17
Bochum, Germany Ac 19
Bockenheim, Germany Ba 19A
Bod, India Dd 35
Bodal, Norway Bc 22
Bodalla, N. S. Wales Ed 67
Bodd, Norway Cb 22
Boden See, Germany & Switz. Da 21
Bodie, U. States Cc 57
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Bœotia, nom., Greece Ec 28
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Bogdo-ola, mts., China Ec 39
Bogense, Denmark Cc 20B
Boggabri, N. S. Wales Eb 67
Boghar, Algeria Da 46
Boghead, Scotland Db 16
Bognor, England Bd 11
Bogong Co., Victoria Fc 68
Bogong, Mt., Victoria Gc 68
Bogos, The, E. Sudan Cd 45
Bogotá, Colombia Cc 63
Bogra, India Ed 35
Bogree, N. S. Wales Ea 67
Bohemia, prov., Austria Db 23
Bohemian Forest, Austria Cb 23
Bohol I., Philippine Is. Dc 38
Bohung Co., Victoria Bd 68
Boiestown, Canada Dc 52
Boileau, Cape, W. Aust. Cb 71
Boisdale, Loch, Scot. Ab 14
Boisé City, U. States Cb 58
Bois le Duc, Netherlands Dc 20A
Bojeador, Cape, Philippine Is. Db 38
Boke, W. Africa Bb 47
Bokhara, As. Russia Dg 42
Bokhara, khanate, Asiatic Russia Eb 33
Bokhara R., N.S.W. Da 67
Boksburg, S. African Rep. Dc 49
Bolaños, Mexico Dc 59
Bolan Pass, The, Baluchistan Ac 35
Boli, Asia Minor Cb 21
Bolivar, Colombia Bc 63
Bolivar, Venezuela Eb 63
Bolivar, dept., Colombia Bb 63
Bolivar, dist., Venezuela Db 63
Bolivar, state, Venezuela Eb 63
Bolivia, rep., S. America Dg 63
Bollington, England Cc 9
Bollin, R., England Cc 9
Bollon, Queensland El 69
Bolobo, Congo State Cc 48
Bologna, Italy Cb 26
Bolong, N. S. Wales Ed 67
Boloven, Annam Db 37
Bolsena, Italy Cc 26
Bolsheryetsk, Siberia Kc 43
Bolson de Mapimi, Mexico Db 59
Bolton (Lan.), England Cb 9
Bolton (Morecambe B.), England Ba 9

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Bo'ton (Yorks.), Eng. Eb 9
Bolton Abbey, Eng. Db 9
Bolton by Bowland, England Cb 9
Bolus Head, Ireland Ae 17
Bona, Congo State Bd 48
Bombe, G. of, Tripoli Hb 46
Bombah, N. S. Wales Ec 67
Bombay, India Ba 36
Bombay, prov., India, Bb, Bc 34
Bomfim, Brazil Cf 62
Bom Jardim, Brazil De 62
Bom Jesus, Brazil Dd 62
Bom Jesus da Lapa, Brazil De 62
Bomnor R., China Bb 40
Bomokandi R., Cent. Africa Eb 48
Bom Retiro, Brazil Gb 64
Bona, A'geria Ea 46
Bonar Bridge, Scotland Cb 15
Bonavista, N'foundland Db 52A
Bonavista Bay, Newfoundland Db 52A
Bon, Cape, Tunis Fa 46
Bo'ness, Scotland Da 16
Bonhill, Scotland Bb 16
Boni, Celebes Dd 38
Bonifacio, Corsica Hf 24
Bonifacio, Str. of, Italy Bd 26
Boni, Gu.f of, Celebes Dd 38
Bonin Is., Micronesia Ic 85
Bonjem, Tripoli Gb 46
Bonn, Germany Ac 19
Bonne B., N'foundland Ab 52A
Bonneville, France Ab 21
Bonney, Lake, S. Aust. Ge 70
Bonney, Lake, S. Aust. Gh 70
Bonny, Guinea Fb 47A
Bonnyrig, Scotland Eb 16
Bonuro, R., Brazil Be 62
Booligal, N. S. Wa'es Cc 67
Boolka. L., N.S. Wales Ab 67
Boon Hill, Scotland Fb 16
Boonville, U. States Cb 56
Boorawa, N. S. Wales Ed 67
Booroondarra Co., N. S. Wales Cb 67
Boort, Victoria Cc 68
Boothby Mt., S. Aust. Ff 70
Boothia, G. of, Canada Ga 51
Boothia Pen., Canada Ga 51
Bootle (Lancas.), Eng. Ac 9
Boppard, Germany Aa 19A
Bor, Brit. E. Africa Fa 48
Boras, Sweden Cd 22
Borba, Brazil Fd 63
Borda, C., S. Australia Cf 70
Bordeaux, France Cd 24
Border Town, S. Aust. Gg 70
Borduku, W. Africa Dc 47
Boreland, Scotland Ca 16
Borgfors, Sweden Eb 22
Borgne, R., Switzerld. Bb 21
Borgo, Russia Fc 22
Borgo Pass, Hungary Ic 23
Borgo Ticino, Italy Cc 21
Borgu, W. Africa Eb 47
Bori, Baluchistan Ab 35
Borja, Peru Bd 63
Borkhaya Bay, Siberia Ha 43
Borkum I., Netherlands Ea 20A
Bormio, Italy Eb 21
Borneo, Malaysia Cd 38
Borneo, Brit. N. Borneo Cc 38
Bornholm I., Denmark Ee 20B
Bornu, dist., Cen. Sudan Fd 44
Borokoro Range, Asiatic Russia Dc 39
Boroughbridge, Eng. Ea 9
Borromean Is., Italy Cc 21
Borrowdale, England Ab 8
Borthwick, Scotland Eb 16
Boscastle, England Cb 13
Boshof, Orange F. State Dc 49
Bosley, England Cc 9
Bosna, R., Austria Fd 23
Bosnia, prov., Austria Ed 23
Bosporus, The, Turkey Fd 27
Bossut, Cape, W. Aust. Cb 71
Boston, England Bb 11
Boston, U. States Db 56
Bostra, Palestine Ec 32
Bostum, Persia Cb 33
Bosworth, England Ab 11
Bosworth Cr., S. Aust. Db 70
Botany Bay, N.S.W. Fd 67
Botesdale, Eng. Cb, Db 11
Bothnia, G. of, Russia Eb 22
Bothwell, Tasmania Cc 72A
Bothwell Water, Scot. Fb 16
Botiala, Africa Ee 45
Botletlie R, S. Africa Ca 49
Boto Fogo, Brazil Ee 63
Botoja, Queensland Bf 67
Botol-tobago, I., China Ee 40
Botosani, Romania Ee 29
Botovy, R., Brazil Be 62
Bottineau, U. States Ba 57
Bottle Hill, S. Australia Db 70
Bottom Head, England Cb 8
Botzen, Austria Bc 23
Bouches du Rhône Dept., France Fe 24
Bouchier Gulf, China Bc 41
Boudri, Switzerland Ab 21
Bougainville, Cape, W. Australia Da 71
Bougainville I., Solomon Is. Ja 66
Bougie, Algeria Da 46
Bouguer, C., S. Aust. Cg 70
Bouillon, Belgium De 20A
Bouillon, France Fb 24
Boulder, U. States Eb 58
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Bouley Bay, Jersey, Channel Is. — 13A
Boulogne, France Da 24
Boundary Dam, W. Australia Dd 71
Bounty Is., Pacific Ocean Lg 65
Bourbon, France Ec 24
Bourbon I., *see* Réunion.
Bourbonnais Prov., France Ec 24
Boures, R., Bolivia Ef 63
Bourg, France Fc 24
Bourges, France Ec 24
Bourke, N. S. Wales Cb 67
Bourke Co., N.S.W. Dd 67
Bourke Co., Victoria Dd 68
Bourke, Fort, N.S.W. Cb 67
Bourn, England Bb 11
Bournemouth, England Fb 13
Bourtang, Netherlands Fa 20A
Boussole Channel, Kurile Is. Kd 43
Bouvard, C., W. Aust. Be 71
Bouveret, Switzerland Ab 21
Bouvet Is., Southern Ocean Ah 2
Bovey, England Db 13
Bowdon, England Cc 9
Bowen, Queensland Fh 69
Bowen Co., Queensland Gj 69
Bowen, Fort, Queens. Bg 69
Bowland Forest, Eng. Ba 9
Bowling Forest, Eng. Bb 8
Bowling Green, U.S. Bc 57
Bowling Green Bay, Queensland Eg 69
Bowmore, Scotland Bd 14
Bowna, N. S. Wales Dd 67
Bow R., Canada Hd 52
Boxvale, Queensland Fj 69
Boyaca, dept., Colombia Cb 63
Boyd, N. S. Wales Ga 67
Boyd Co., N. S. Wales Ga 67
Boyle, Ireland Cc 17
Boyne, R., Ireland Ec 17
Bozeman, U. States Da 58
Brabant, N., Holland Dc 20A
Brabant, S., Belgium Cd 20A
Bracadale, Loch, Scot. Ab 15
Bracciano, Italy Dc 26
Brackley, England Ab 11
Bradfield, England Dc 9
Bradford, U. States Df 53
Bradford (Wilts.), Eng. Dc 10
Bradford (Yorks.), Eng. Db 9
Brading, England Ad 11
Bradninch, England Db 13
Braemar, Scotland Dc 15
Braeriach, mt., Scot. Db 15
Braes of Angus, Scot. Dc 15
Braes of Doune, Scot. Ca 16
Brafferton, England Ea 9
Braga, Portugal Ab 25
Bragança, Portugal Bb 25
Bragança (Maranhão), Brazil Cc 62
Bragança (São Paulo), Brazil Cg 62
Brahestad, Russia Ec 22
Brahmani, R., India Dd 35
Brahmaputra, R., India Fc 35
Braich-y-Pwll, Wales Bb 10
Braidwood, N.S. Wales Ed 67
Braila, Romania Eb 27
Brainerd, U. States Da 57
Braintree, England Cc 11
Brakna, W. Africa Ha 47
Bramham, England Eb 9
Brampton, Canada De 53
Brampton, England Dc 9
Branco I., C. Verde Is. Aa 47B
Branco, Rio, Brazil Ec 63
Brandenburg, Germ. Db 19
Brandenburg, prov., Germany Db 19

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Brandenburg, Neu, Germany Db 19
Brandon, Canada Je 54
Brandon, England Cb 11
Brandon Hill, Ireland Ad 17
Bran, R., Scotland Cb 15
Brantford, Canada Ce 53
Bras d'Or, Canada Gd 52
Brass, Guinea Fb 47A
Bratsberg, prov., Norway Bd 22
Brattleborough, U.S. Ge 53
Braunsberg, Germany Ia 18
Brava, I., C. Verde Is. Ab 47B
Bray, Ireland Ec 17
Brazeau, Canada Gd 54
Brazil, rep., S. America Be 62
Brazoria, U. States Ce 57
Brazos R., U. States Cd 57
Brazza I., Austria Ee 23
Brazzaville, Fr. Congo Bc 48
Breadalban, dist., Scotland Cc 15
Breaksea Sound, N.Z. Af 72
Brechin, Scotland Ec 15
Brecknock, *or* Brecon, Wales Cc 10
Brecknock Beacons, Wales Cc 10
Brecknock Co., Wales Cc 10
Brecon, Wales Cc 10
Breda, Netherlands Cc 20A
Bredasdorp, C. Colony Cd 49
Breelong, N. S. Wales Eb 67
Breeza, N. S. Wales Fb 67
Bregenz, Austria Ac 23
Breich Water, Scotland Db 16
Breighton, England Fb 9
Brejo, Brazil Dc 62
Brembana, Val, Italy Dc 21
Bremen, Germany Bb 19
Bremerhaven, Germany Bb 19
Bremersdorp, Swazil'd Ec 49
Bremgarten, Switz. Ca 21
Brendon Hill, England Da 13
Brenner Pass, The, Austria Bc 23
Breno, Italy Ec 21
Brentford, England Bc 11
Brentwood, England Cc 11
Brescia, Italy Cb 26
Breslau, Germany Fc 19
Brest, France Ab 24
Brest Litovsk, Russia Dd 29
Breton Bay, W. Aust. Be 71
Breton, Cape, Canada Gd 52
Breton I., C., Canada Gd 52
Brett, Cape, N.Z. Ea 72
Breves, Brazil Bc 62
Brevik, Norway Bd 22
Brewster, Canada Ce 53
Brewton, U. States Ed 57
Briagolong, Victoria Fd 68
Briançon, France Gd 24
Briare, France Ec 24
Bridgend, Wales Cc 10
Bridge of Allan, Scot. Da 16
Bridge of Earn, Scot. Ea 16
Bridgeport, U. States Gf 53
Bridgeton, U. States Fg 53
Bridgetown, W. Aust. Be 71
Bridgetown, W. Indies Gd 60
Bridgewater, U. States Cc 52
Bridgewater Bay, Vict. Ae 68
Bridgewater, C., Vict. Ae 68
Bridgnorth, England Db 10
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Kirkby Lonsdale, Eng. Ba 9
Kirkby Malzeard, Eng. Da 9
Kirkby Moorside, Eng. Db 8
Kirkby Stephen, Eng. Bb 8
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Kristiansand, prov., Norway Bd 22
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Kuchan, Persia Db 33
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KuhGargish, mt., Persia Cc 33
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Ku Kuantan, Malay Pen. Ce 37
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Kulan-cheng, Manchuria Ca 41
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Kulun Lake, Mongolia Lb 39
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Kumadau L., S. Africa Cb 49
Kumamoto, Japan Dd 41
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Kungrad, As. Russia Cg 42
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Kurgaljin Dengiz, Asiatic Russia De 42
Kurgan, Siberia Dd 42
Kurian Murian Is., Arabia Gd 45
Kurile Is., Japan Id 43
KurischHaff, The, Ger. Ja 18
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Kurmul, Jebel, Palestine Cc 32
Kurna, Turkey in Asia Fd 31
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Kursk, Russia Gd 29
Kurtakko, Russia Eb 22
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Kuwana, Japan Ec 41
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Kuznetsk, Siberia Fe 42
Kvalöi., North, Norway Da 22
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Kwang-chung-tse, Manchuria Cb 41
Kwang-Nam, Annam Db 37
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Kwang-Ngai, Annam Db 37
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Kwang-si Prov., China Be 40
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Kwei-chau, China Bc 40
Kwei-chau Prov., China Bd 40
Kwei-hwa-cheng, China Ca 40
Kwei-ling, China Cd 40
Kwei-te, China Dc 40
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Kyle, dist., Scotland Bb 16
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Kylorn, Sweden Ec 22
Kyndona, Queensland Bh 69
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Lagos, Portugal Ad 25
Lagosta I., Austria Ee 23
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Lochgilphead, Scot. Cc 14
Lochgoilhead, Scot. Ba 16
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Lochlarig, R., Scotland Ba 16
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Logan Rock, England Bb 13
Logansport, U. States Eb 57
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Londonderry Co., Ireland Db 17
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Longnor, England Dc 9
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Lotbinière, Canada Ac 52
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Lucindale, S. Aust. Gg 70
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Ludhiana, India Cb 35
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Lugnaquilla Mt., Ireland Ed 17
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Lugos, Hungary Gd 23
Lug, R., England Db 10
Lugton Water, Scot. Bb 16
Lui, Ben, Scotland Ba 16
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